

# TECHNICAL REPORT

32-69

Checklist of the Reptiles and Amphibians of Egypt

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Hymon Morx





U. S. NAVAL MEDICAL RESEARCH UNIT NO.3

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By
HYMEN MARX
Associate Curator of Reptiles and Amphibians
Field Museum of Natural History
Chicago, Illinois
U. S. A.

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Hymen Marx
Associate Curator of Reptiles and Amphibians
Field Museum of Natural History
Chicago, Illinois
U. S. A.

and

Consultant (Reptiles and Amphibians)
Medical Zoology Department
United States Naval Medical Research Unit
Number Three, Cairo, Egypt, U. A. R.

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#### INTRODUCTION

This checklist is based primarily on extensive collections made by the United States Na al Medical Research Unit No. 3 (NAMRU-3) in Fgypt. Forms here listed are those that are known or expected to occur in Egypt (including Sinai), and those that have been reported from Egypt without further verification. The systematic lists contain original citations, references to major faunal works, and the most recent reviews of each particular group. NAMRU-3 collecting localities are given for each species. From the 3,424 specimens obtained, adequate distributional data are now available for most forms in Egypt. Maps showing collecting localities for each species are also presented for use in future sympatric and ecolgical studies.

NAMRU-3 collections in the Field Museum of Natural History, represent 72 reptile and amphibian species, a phenomenal 77.4% of Egypt's known total herpetological fauna. Ten forms have been added to the Egyptian herpetofauna through the efforts of the NAMRU-3 Medical Zoology team: Pristrurus flavipunctatus, Ophisops elbaensis, Philochortus intermedius, Leptotyphlops macrorhynchus, Colubersinai, Psammophis schokari aegyptius, Telescopus hoogstraali, Atractaspis engaddensis, Bufo dodsoni, Rana ridibunda. Four new species, O. elbaensis, C. sinai, P. s. aegyptius, and T. hoogstraali, were described from these collections. The reported herpetofauna of Egypt consists of 93 species in 52 genera. Of the 93 species, three questionably occur in Egypt (Alsophylax blanfordi,

the 93 species, three questionably occur in Egypt (Alsophylax blanfordi, Gymnodactylus kotschyi, and Dermochelys coriacea) and two (Scincopus fasciatus and Coluber elegantissimus) have not been reported from Egypt, but almost certainly occur there. Four species are known only from Egypt (Uromastix ornatus, Ophisops elbaensis, Coluber sinai, Telescopus hoogstraali) but they may occur elsewhere.

This collection consists of 3,424 reptiles and amphibians. The ten most common species (108-325 specimens each) are the following eight species of lizards and two of frogs: Acanthodactylus boskianus (9.5% of collection), Chalcides ocellatus (7.6%), Bufo regularis (6.1%), Agama stellio (5.3%), Bufo viridis (5.1%), Tarentola mauritanica (4.7%), Agama mutabilis (3.9%), Eumeces schneideri (3.2%), Acanthodactylus pardalis (3.2%), and Eremias guttulata (3.2%). The eight most abundant species of snakes in this collection (48 to 88 specimens each) are Psammophis schokari (2.6%), Malpolon monspessulanus (2.5%), Psammophis sibilans (2.4%), Spalerosophis diadema (1.8%), Leptotphylops cairi (1.8%), Cerastes cerastes (1.5%), Coluber florulentus (1.5%), and Cerastes vipera (1.4%).

Note that of the eight most common species of snakes collected, two are vipers, three are rear-fanged snakes and none are cobras. Vipers and cobras (nine species) comprised 4.5% (158 specimens) of this collection. The two Cerastes species account for most of the collected specimens of front-fanged snakes (101 specimens).

The Egyptian herpetological fauna at the species level is primarily composed of lizards and snakes (Order Squamata-86.1%). Lizards are the most common both in numbers of species and collected specimens (Table 1). Geckos, lacertid and agamid lizards, skinks, colubrid snakes, and bufonid toads are by far the major faunal elements. Though the colubrid snakes have the greatest species diversity (21.5%), lacertid lizards comprise the family with most collected individuals. Skinks are also noteworthy; though they comprise only 8.6% of the Egyptian species, they comprised 16.3% of the collected specimens.

Six species of turtles form a small part of the Egyptian herpetofauna.

Acanthodactylus is the most evident reptilian genus in Egypt. This genus of four species occurring in Egypt contains the most specimens (15.3% of collection).

Agama (11.1%), Chalcides (9.3%), and Tarentola (7.2%) were also well represented in this collection.

FAMILIES		GENERA (52)		CIES 13)	SPEC COLLECT	FAMILIES		
	NO.	3	NO.	%	NO.	*	NO.	7
Lizarda					I			8888
Gekkenidae		15.4	14	15.1	458	13.4		
Lacartidae	1 5	7.6	12	12.9	692	20.2		
Agemidae	2	3.8	,	9.7	407	11.9		
Scincidos	4	11.5		8.6	557	16.3		
Yerenidae	1	1.9	2	2.2	24	0.7		
Chemoeleenidae	1	1.9	1	1.1	63	1.8		
Snakes			l		1			
Colubridge	11	21.2	20	21.5	474	13.6		
Viperidee	4	7.7	6	6.5	131	2.8		
Elepidee	2	3.8	3	3.2	26	0.8		
Laptotyphiap!dug	1 1	1.9	2	2.2	61	1.0		
Beldee	1 1	1.9	2	2.2	35	1.0		
Typhiopides	i	1.9	ì	1 1.1	0	-		
Fregs		į	1			ł		
Bufoni dan	1	i.9	4	4.3	389	11.4		
Ranidae	1 1	1.9	2	2.2	68	2.6		
Turties		1	_			_		
Cheluntidae	3	5.8	3	3.3	4	0.1		
Testudinidee	1	1.9	1	1.1	13	0.4		
Dermechelyidee	1 1	1.9	1 1	1.1	0	1 -		
Trionychidae		1.9	1	1.1		l _		
Crocodiles	'	""	1	'''	1	ł		
Crocodylidae	1	1.9	1	1.1	0	-		
Orders and Subardors	-			l	[			
Lizarda	23	44.2	التا	49.5	2793	64.3	6	31.4
Snekee	20	38.5	34	35.6	727	21.2	6	31.4
Frees	2	3.8	6	6.5	477	13.9	2	10.5
Turles	1 6	11.5	6	6.5	17	0.5	4	21.1
Cresedile	l i	1.9	1	1.1		-	1	5.3

Table 1. Compaction of the harpstalegical founc of Egypt.

# **ZOOGEOGRAPHY**

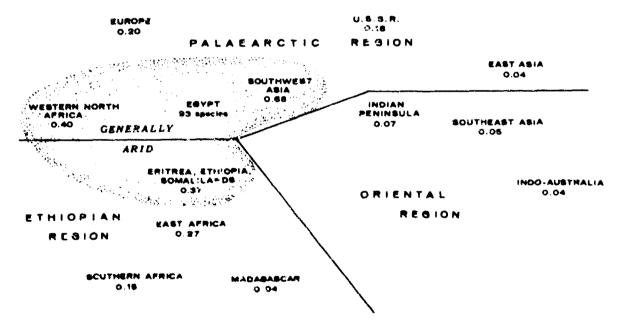


FIGURE 1. Proportion of Egyptian herpotological species occurring in other parts of the Old World. Stippling covers generally arid area.

4.40.4	SPE	CIES	GEN	MARINE	
LOCATION	NO.	%	NO.	%	SPECIES NO.
Medagascer	4	4.3	11	21.2	2
Southern Africa	14	15.1	17	32.7	4
Eastern Africa	25	26.9	30	57.7	4
Somelilands, Ethiopia, Eritrea	34	36.6	31	59.6	?
Western North Africa	37	39.8	35	67.3	2
Southwest Asia	63	67.7	46	88.5	4
Europo	19	20.4	27	51.9	( 4
U.S.S.R.	17	18.3	26	50.0	2
East Asie	4	4.3	21	40.4	4
Indian Peninsula	6	6.5	24	46.2	1 4
Southeast Asia	5	5.4	19	36.5	4
Indo-Australia	4	4.3	14	26.9	4
Egypt	93	]	52	<u>l</u>	1 4

Table 2. Number and percentage of Egyptian herpetofauna occurring in other parts of the Old World.

The percentage of the Egyptian fauna shared with other parts of the Old World are shown in Figure 1 and Table 2. The majority of the fauna is represented in southwestern Asia, northern Africa, and arid regions of northeastern Ethiopian Region. The Egyptian herpetofauna is primarily composed of species with Palaeartic distribution but 37% of its species also occur in the adjacent Ethiopian Faunal Region. The same pattern is true for the distribution of genera.

There is practically no relationship between this arid Palaearctic terrestrial fauna and the generally tropical terrestrial fauna of the Oriental Region. Only three terrestrial species are shared by both areas, Spalerosophis diadem: reaching west-central India, Echis carinatus in peninsular India, and Hemidactylus flavivi-ridis in southeast Asia. The other forms common to both Egypt and the Oriental

Region are the marine turiles, reflecting the aquatic dispersal of this group.

The distributional data from which Figure 1 and Table 2 were prepared are from the following texts:

Madagascar - Angel, 1942: Guibe, 1958. Southern Africa - Fitzsimons, 1943, 1962; Loveridge and Williams, 1957.

East Africa - Loveridge, 1957.

Somaliland and Ethiopia (including Eritrea) - Loveridge and Williams, 1957; Parker, 1942, 1949.

Northwestern Africa - Domergue, 1959; Loveridge and Williams, 1957; Pasteur

and Bons, 1960. Southwestern Asia - Anderson, 1963; haas, 1951; Khalaf, 1959; Leviton, 1959; Minton, 1962; Schmidt, :939.

Europe - Mertens and Wermuth, 1960.

U.S.S.R. - Terentjev and Chernov, 1949,

Eastern Asia - Liu, 1050; Maki, 1931; Obst, 1963; Pope, 1935; Shannon, 1956; Stejneger, 1907; Wang and Wang, 1961. Indian Peninsula - Smith, 1931, 1935, 1943.

Southeastern Asia - Bourret, 1936; Smith, 1930, 1931, 1935, 1943; Tweedie, 1953. Indo-Australia - de Rocij, 1915, 1917.

#### **ACKNOWLEDGEMENTS**

I particularly wish to thank Dr. Harry Hoogstraal and Medical Zoology Department personnel of NAMRU-3 whose interest and perseverence resulted in this useful, massive collection. I also wish to thank Doris M. Cochran and James A. Peters (USNM), Ernest E. Williams (MCZ), Alice G. C. Grandison (BMNH), Georg Hams (HU), and H. Mendelssohn (TAU) for the loan of comparative material. Thanks are also extended to Miss Bessie L. Williams, who helped labor over this material.

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# SPECIES LIST

	Key to the Orders and Suborders of Reptiles and Amphibians
1.	Limbs present
<b>2</b> .	Tail present
3.	Body encased in a dorsal and ventral shell; no teeth turtles (p. 43) Body not encased in shell; teeth present
4.	Teeth exposed with mouth closed crocodile (p. 43) Teeth not visible with mouth closed lizards (p. 4)
	REPTILIA
	Order SQUAMATA
	Suborder SAURIA
	Key to the Families of Lizards
1.	Digits in opposable bundles, tail prenensile; body compressed
2.	Head covered with large shields
٤.	Belly scales distinctly different from dorsal scales Lacertidae (p. 13) Belly scales same as dorsal scales Scincidae (p. 22)
4.	No movable lower eyelids, i.e. "snake eyed"
5.	Nostril very close to end of snout Agamidae (p. 10) Nostril close to eye or midway between eye and end of snout
	GERKON I DAE
	key to the Species of Gekkonidae
1.	Fingers and toes cylindrical, not expanded distally
2.	Dorsal scales uniform
3.	Dorsal scales overlapping (Tropiocolotes)

4

5.	Adpressed hindlimbs reach beyond shoulder Tropiocolotes natterer (p. 9) Adpressed hindlimbs do not reach shoulder Tropiocolotes steudner (p. 9)
6.	Fingers compressed
7.	Tail abruptly constricted posterior to basal swelling (Fig. 2 - left)
8.	Lower jaw with a single row of enlarged scales near the chin
9.	Dorsal tubercles large, separated from each other by 1-2 scales
10.	Underside of digits without a longitudinal groove, lameliae in a single row (Tarentola)
11.	Middorsal and lateral tuber-les equally raised
12,	Digits proximally slender
13.	Back with uniform granules



Figure 2. Base of tail of Stenodactylus petric (left - FWNR 152870) and S. sthenodactylus (right - FWNR 66402).

# Alsophylax blanfordi (Strauch)

- Bunopus blanfordi Strauch, 1887, Mem. Acad. Imp. Sci. St. Petersbourg, (7);
  35: p. 61-Egypt; Anderson, 1898, Zool. Egypt, 1: p. 50, fig. 4.
- Alsophylax blanfordi, Loveridge, 1947, Bull Mus. Comp. Zool., 98: p. 58.
  - Range--Arabia; ?Egypt
    Flower (1933) and Loveridge (1947) doubt the occurrence of this species in Egypt. None from Egypt were examined during the present study.

## Gymnodaciylus kotschyi Steindachner

- Gymnodactylus kotschyi Steindachner, 1870, Sitz. Akad. Wiss. Wich, 62:

  p. 329—"Gorce, Senegal" (error fide Loveridge, 1947). (restricted to Syros Island, Cyclades by Mertens and Mueller, 1928); Boulenger, 1885.
  Cat. Liz. Brit. Mus., 1: p. 29; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 65.
  - Range--Europe and western Asia.

    Loveridge (1947) believes that the records of this species in Africa (Senegal and Egypt) are introductions or errors.

#### Gymnodactylus scaber (Heyden)

- Stenodactylus scaber Heyden, 1827, in Ruppell, Atlas Reise Afrika, 1, Rept., p. 15—vicinity of Tor, Sinai and the Abyssinian Coast.
- Gymnodactylus scaber, Duméril and Bibron (part), 1836, Erp. Gen., 3: p. 421;
  Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 64; Anderson, 1898, Zool.
  Egypt, 1: p. 54; pl. 5, fig. 1; Flower, 1933, Proc. Zool. Soc. London,
  1933: p. 763; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 64.
  - Common name--Rough-skinned Gecko; Rough scaled Gecko; Keeled Rock Gecko.
- Range--Northwestern India eastward to Egypt and south to the Sudan (?Eritrea).

# Hemidactylus flaviviridis Rüppell

- Hemidactylus flaviviridis Rüppell, 1835, Neuer Wirbelth. Fauna Abyss.

  Amphib., p. 18—Massaua Island, Eritrea; Anderson, 1898. Zool. Egypt.
  1: p. 77. pl. 5. fig. 5; Flower, 1933, Proc. Zool. Soc. London, 1933:
  p. 766; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 157.
- Hemidactylus coctaei Duméril and Bibron, Boulenger, 1885. Cat. Liz. Brit. Mus., 1: p. 137.

Common Name--Cocteau's Gecko; Yellow-bellied House Gecko.

Range--Coasts of the Red Sea to northern India.

# Hemidactylus turcicus turcicus (Linnaeus)

- Lacerta turcica Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 202-Oriente.
- Hemidactylus turcicus, Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 126;
  Anderson, 1898, Zool. Egypt, 1: p. 80, pl. 5, fig. 3; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 765.
- Hemidactylus turcicus turcicus, Loveridge, 1941, Copeia, 1941; p. 247; 1947, Bull. Mus. Comp. Zool., 98; p. 142.
  - Common name--Turkish Gecko; Warty Gecko; Mediterranean Gecko.
  - Range--Northern Africa. Introduced elsewhere in Asia, Europe and New World (Loveridge, 1947: p. 147).

```
Specimens collected--18. Map 1 ISMAILIA: El Ballah (4).
               SUEZ: Cairo-Suez road, 65 km E of Cairo (1).
               KAFR EL SHEIK: Baltim (1).
               BEHEIRA: Hafs (1).
               QALUBIYA: Delta Barrage (1).
               CAIRO: Abbassia (2).
               CIZA: Geziret Muhammed (1); Abu Rawash (3).
               ASYUT: Asyut (1).
               MATRUH: Burg el Arab (1); Ras el Hekma (1); Mersa Matruh (1).
Pristurus flavipunctatus Ruppell
      Pristurus flavipunctatus Rüppell, 1835, Neue Wirbelthiere Fauna Abyss., Amph.,
            p. 17—Massaua, Eritrea; Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 52; Anderson, 1898, Zool. Egypt, 1: p. 56, pl. 4, fig. 10; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 77; Schmidt and Mar 1957, Bull. Zool. Soc. Egypt, no. 13: p. 17.
         Range--Arabia, extreme southeastern Egypt southward to Somalia.
         Specimens collected--2. Map 1.
               SOUTHEASTERN DESERT: Gebel Elba, Wadi Kansisrob (1); Wadi Aideib, 2 mi.
                                          N of Bir Kansisrob (1).
Ptychodactylus hasselquisti hasselquisti (Donndorff)
      Lacerta hasselquisti Donndorff, 1798, Zool. Beitr., Leipzig, 3: p. 133—Cairo,
            Egypt.
      Ptychodactylus lobatus Geoffroy, Boulenger, 1885, Cat. Liz. Brit. Mus., 1:
            p. 110.
      Ptychodactylus hasselquisti, Anderson, 1898, Zool. Egypt, \underline{1}: p. 62; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 763.
      Ptychodactylus hasselquisti hasselquisti, Schmidt, 1939, Field Mus. Nat.
            Hist., Zool. Ser., 24: p. 56; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 275.
         Common name--Fan-footed Gecko.
         Range--Southwest Asia eastward to French West Africa and the Algerian Sahara.
         Specimens collected--78. Map 2
               SINAI: St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (13); Raba (1), Wadi el SheTkh (4), Wadi el Arbaeen (1). Feiran Oasis (+ 1500 ft. alt.) (2).
               SUEZ: Wadi Iseili tributary 24 km E of Kutamiya Observatory (1);
                       Kutamiya (1); Wadi Gindali (1); Cairo-Suez road, near halfway
                       mark (2); Wadi Qiseib (1).
               RED SEA: Wadi Atalla (1).
               SOUTHEASTERN DESERT: Gebel Elba, Bir Kansisrob (9).
               CAIRO: Citadel (1); Wadi Garawi, 16 km SE of Helwan (1). GIZA: Abu Sir (1); Giza pyramids (10); Abu Rawash (22).
               ASWAN: Wadi Murra, Bir Murra (4).
               MATRUH: Wadi Natroun (1); El Amiriya (1).
Stenodactylus petrii Anderson
                                           Figure 2 - left
      Stenodactylus petrii Anderson, 1896, Contrib. Herpet. Arabia, p. 96-Tel El
            Amarna, Assuit Province, Egypt; 1898, Zool. Egypt, 1: p. 45, pl. 4, fig. 7; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 760; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 41.
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Common name -- Petrie's Gecko.

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Specimens collected--2. Map 3
               GIZA: Manshiyet Radwan (1)
               MATRUH: El Maghra Oasis (1).
Stenodactylus sthenodactylus sthenodactylus (Lichtenstein)
                                                                               Figure 2 - right
      Ascalabotes sthenodactylus Lichtenstein, 1823, Verz. Doubl. Mus. Zool.
             Berlin, p. 102-Egypt and Nubia.
      Stenodactylus elegans Fitzinger, Anderson, 1898, Zool. Egypt, 1: p. 42, pl. 4, fig. 1-6.
      Stenodactylus guttatus Cuvier, Boulenger, 1885, Cat. Liz. Brit. Mus., 1:
      <u>Stenodactylus sthenodactylus</u>, Flower, 1925, Proc. Zool. Soc. London, 1925, p. 939; 1933, <u>ibid.</u>, 1933: p. 760.
      Stenodactylus sthenodactylus sthenodactylus, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 48; 1947, Bull. Mus. Comp. Zool, 98: p. 44.
         Common name -- Elegant Gecko; Spotted Gecko.
         Range--Tunisia east to Egypt; and south to Lake Rudolf; Southwest Asia.
         Specimens collected--69. Map 3.
               SINAI: El Quseima (1-USNM).
                       Kutamiya Observatory road (1); Cairo-Suez road, 28.8 km E of
                        of Cairo (1).
               SHARQIYA: El Abbassa (1).
               GIZA: Abu Rawash (12); Abu Rawash, 1.5 km W of (3).
               FAIYUM: Kom O Shim (6); Kafr Mahfuz (1).
               MINYA: Gebel el Teir (4).
              QENA: Luxor (1).
ASWAN: Aswan, 1.6 km SE of (1); Allaqi, 11.2 km S of (1).
                         Wadi Natroun (9); El Amiriya (4+2 USNM); Abu Mena (1);
Burg el Arab (8+1 USNM); El Afritat, (1); El Hauwariya (1);
               MATRUH:
                          Fl Alamein (2); Mersa Matruh (2+2 USNM); Sidi Barrani, 56 km
                          W of (1); Siwa Oasis (2).
Tarentola annularis annularis (Geoffroy)
      Gecko annularis Geoffroy, 1823, in Savigny, Descr. Egypte, 1: p. 130-Egypt.
      Tarentola annularis, Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 197;
Anderson, 1898, Zool. Egypt, 1: p. 89, pl. 8, fig. 3; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 767.
      Tarentola annularis annularis, Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 323.
        Common name -- Egyptian Gecko; White-spotted Gecko.
        Range--Libya through Sinai to Arabia, south to Eritrea, Ethiopia and
                 Somaliland.
        Specimens collected--87. Map 4. RED SEA: Bir Abraq (3).
              SOUTHEASTERN DESERT: Wadi Aideib, 3.2 km N of Bir Kansisrob (4);
Gebel Elba, Bir Kansisrob (12).
CATRO: Cairo (1); Abbassia (11); Maadi (1).
               GIZA: Gina Pyramids (2); Abu Rawash (3). FAIYUM: Temple of Gebel Katrani (2); Gezeiret el Qarn (20); Kom O
                          Shim (8); Bait el Asfar (1); Shooting Club (3); Fanus (2).
```

Range--Israel, Sinai, Egypt westward to west Algeria; (?Sudan).

ASYUT: Durunka (1).

QENA: Luxor (2). ASWAN: Wadi el Ghadir (1).

MATRUH: Wadi Natroun, El Hamra (2); Bahig: 112 km S of (5), 160 km S of (3).

# Tarentola mauritanica mauritanica (Linnaeus)

Lacerta mauritanica Linnaeus, 1758, Syst. Nat., ed. 10, 1: 202-Mauritanica.

Tarentola mauritanica, Gray, 1845, Cat. Liz. Brit. Mus., p. 164; Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 196; Anderson, 1898, Zool. Egypt, 1: p. 86; Flower, 1933, Proc. Zool. Soc. London, 1933, p. 766.

Tarentola mauritanica mauritanica, Mertens, 1925, Abh. Senckenberg. naturf. Ges., 39: p. 61; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 313.

Common name -- Moorish Gecko; Moorish Wall Gecko.

Range -- Countries and islands bordering the Mediterranean; Canary and Madeira Islands.

Specimens collected--161. Map 5.

GHARBIYA: Shirbin (1).

MATRUH: Cairo-Alexandria desert road, 32 km W of (1); Wadi Natroun (2): Wadi Natroun, El Beida (3); El Amiriya (27); Alexandria, 8 km W of, 15 km S of sea (3); Bahig (2); Sanyet el Agram (2); Burg el Arab (65); Mersa Matruh: Mersa Matruh (40), 72 km W of (1), 84.8 km W of (2); Sidi Barrani: Sidi Barrani (4), 0.6 km S of (1), 9.6 km W of (3), 48 km W of (2); Siwa Oasis, Ain Shefa (1).

ASWAN: west bank of Nile River (1).

# Tropiocolotes nattereri Steindachner

Tropiocolotes nattereri Steindachner, 1901, Denks. Akad. Wiss. Wien, 69: p. 326, pl. 1, figs. 2-2a—Bir al Mashi (Mashiya) and Nawibi, Gulf of Akara, Sinai, Egypt; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 762; Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 51.

Common name -- Natterer's Gecko.

Range--western Arabia and eastern Sinai. Flower (1933) and Loveridge (1947) both question the distinction of this species from  $\underline{T}$ .  $\underline{steudneri}$ . Pasteur (1960) believes this species to be valid.

#### Tropiocolotes steudneri (Peters)

Gymnodactylus steudneri Peters, 1869, Monatsb. Akad. Wiss. Berlin, p. 788—Sennar, Anglo-Egyptian Sudan; Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 34.

Stenodactylus petersii, Boulenger, 1885, loc. cit., p. 18.

Tropiocolotes steudneri, Boulenger, 1891, Trans. Zool. Soc. London, 13:

p. 108; Anderson, 1891, Zool. Egypt, 1: p.48, pl. 4, fig. 9; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 761; Loveridge, 1947, Bull. Rus. Comp. Zool., 98: p. 52.

Common nan--Steudner's Gecko; Steudner's Pigmy Gecko.

Range--extreme southwestern Asia, Sinai, Egypt, and Sudan west to the Algerian Sahara.

Specimens collected -- 33. Map 6. SUEZ: Wadi Gindali (1).

RED SEA: Ras Gharib (1); Hurghada (1); Wadi Ghuweibba (1); Bir 'braq

(1-USNM); Wadi Asyuti, 20.8 km SW of Asyuti (1).

CAIRO: Maadi (2); Maadi, 3.2 km E of (1).

GIZA: Abu Rawash area (4); El Harraniya (3-USNM), Cairo, 24 km W of

(14-USNM).

ASWAN: Wadi Abbad (3).

# Tropiocolotes tripolitanus tripolitanus (Peters)

Tropiocolotes tripolitanus Peters, 1880, Monatsb. Akad. Wiss. Berlin, p. 306, l pl., fig. 1—Uadi M'bellam, Tripolitanica; Anderson, 1898, Zool. Egypt, l: p. 47; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 761.

Stenodactylus tripolitanus, Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 19.

Tropiocolotes tripolitanus tripolitanus, Loveridge, 1947, Bull. Mus. Comp. Zool., 98: p. 54.

Common name -- Tripoli Gecko; Tripoli Pigmy Gecko.

Range--Egypt west to Tunisia.

Specimens collected--8. Map 6. SINAI: El Arish (1-USNM). GIZA: Abu Rawash (5-USNM).

FAIYUM: Gezeiret el Qarn, Lake Qarun (2-USNM).

#### **AGAMIDAE**

# Key to the Species of Agamidae

l .	Tail with regular whorls of hard spinose scales
2.	Each tail whorl consisting of two rows of scales dorsally
	Each tail whorl consisting of one row of scales dorsally (Uromastix)
3.	Ventral scales of tail as long as those dorsally
4 .	concial lobules
	Anterior border of ear without conical lobules
5.	Enlarged scales on forearm interspersed
	with smaller scales Uromastix aexyptius (p. 13)
	No enlarged scales on forearm <u>Uromastix acanthinurus</u> (p. 12)
<b>3</b> ,	Dorsal scales subequal
	Dorsal scales with intermixed enlarged scales
7.	Third toe longest
	Fourth toe longest
3.	Long head spines
	No long head spines

# Agama agama spinosa Gray

Agama spinosa Gray, 1931, in Griffith, Cuvier's Anim. Kingdom, 9: Syn., p. 57—Africa (restricted to Suakin, Sudan); Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 355; Anderson, 1898, Zool. Egypt, 1: p. 114, pl. 10, figs. 2-3; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 772.

Agama agama spinosa, Parker, 1942, Bull. Mus. Comp. Zool., 91: p. 49; Schmidt and Marx, 1957, Bull. Zool. Soc. Egypt, no. 13, p. 18.

Common name--Gray's Agama

Range--Egypt to Eritrea, Ethiopia, and Somalilands.

Specimens collected--34. Map 7.

RED SEA: Bir Abraq (18); Gebel Qattar, 55 mi SW of Hurghada (2); Wadi el Ghadir (1); Wadi Abu Shih (1).

SOUTHEASTERN DESERT: Gebel Elba, Bir Kansisrob (1).

GIZA: 6 km W of Cairo (3).

MATRUH: Bahig (8),

# Agama mutabilis Merrem

Agama mutabilis Merrem, 1820, Tent. Syst. Amphib., p. 50-Egypt; Boulenger, 1885, Cat. Liz. Brit. Mus., <u>1</u>: p. 338; Anderson, 1898, Zool. Egypt, <u>1</u>: p. 94, pl. 9; Flower, 1933, Proc. Zool. Soc. London, <u>1933</u>: p. 768.

Agama pallida Reuss, 1834, Mus. Senckenb.,  $\underline{\underline{1}}$ : p. 38—Sinai (by designation of Anderson, 1896); Boulenger, 1885, op. cit., p. 348; Anderson, 1898, op. cit., p. 100; Flower, 1933, loc. cit., p. 769.

Pasteur and Bons (1960) synonymized A. pallida Reuss with Agama mutabilis Merrem.

Common name -- Changeable Agama; Pale Agama,

Range--North Africa from Tunisia to southern Israel.

Specimens collected--135. Map 8.

ISMAILIA: Qassim, 3 km SE of (1).

SUEZ: Wadi Iseili, tributary 24 km E of Futamiya Observatory (4);
Wadi Gindali (2); Cairo-Suez road (km E of Cairo): 28.8 (7),
32 (4), 35.2 (2), 57 km (2).

RED SEA: Wadi Asyuti, 20.8 km SE of Asyut (1). SHARQIYA: Bilbeis (2); Minyet Salamant (2).

BEHEIRA: El Birigat (1); El Khataba (4); Hafs (1).

CAIRO: Gebel el Ahmar (3); Helwan (2).

El Saff (1); Giza Pyramids (5); Abu Rawash (5); El Qatta (2); Wardan (6).

FAIYUM: Bait el Asfar (1); Kafr Mahfuz (3).

MINYA: El Bahnasa (1).

MATRUH: Bir Victoria (1); Wadi Natroun (8); Cairo-Alexandria desert road, 179 km NW of Cairo (2); El Amiriya (4). Bahig: Bahig (6); 48 km S of (1), 112 km S of (1). Burg el Arab (25). Mersa Matruh: Mersa Matruh (7), 8 km E of (3), 4.8 km E of (3), 1.6 km E of (1). Sidi Barrani: 1.6 km S cf (2); 48 km W of (3). Salum (2). Bir Sheferzen (1), 9.6 km E of (1). TAHREER: El Birigat, 1 km W of (2).

# Agama savignyi Duméril and Bibron

Agama savignyi Duméril and Bibron, 1837, Erp. Gén., 4: p. 508; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 770.

Agama flavimaculata, Rüppell, Anderson, 1898, Zool. Egypt, 1: p. 110, pl. 11. Common name -- Savigny's Agama.

Range--eastern Egypt to Israel.

Specimens collected--3. Map 8.

SUEZ: 36.8 km S of halfway mark, Cairo-Suez Road (1).

QALUBIYA: Kafr Abu Sir (2).

# Agama sinzita Heyden

Agama sinaita Heyden, 1827, in Ruppell, Atlas Reise nord. Afr., Rept., p. 10—Sinai; Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 339; Anderson, 1898, Zool. Egypt, 1: p. 106, pl. 10, fig. 1; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 771.

Common name -- Sinai Agama.

Range--Israel, Arabia, and Sinai southwest into Egypt to Eritrea.

Specimens collected--25. Map 8.

SINAI: St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (4); Raba (2), between Raba and Wadi Rada (4), Wadi Haroon (1), Wadi el Sheikh (2).

SUEZ: Wadi Doum, 25 km S of Ain Sukhna (1); Wadi Doum (1); Wadi Qiseib (2).

RED SEA: Quseir, 40 km W of (1); Wadi el Sukkari (2); Wadi Abu Shih (1).

CAIRO: Helwan, Wadi Hof (2). ASWAN: Wadi Rashed (2).

# Agama stellio (Linnaeus)

<u>Lacerta stellio</u> Linnaeus, 1758, Syst. Nat., ed. 10, <u>1</u>: p. 202—Delos, Cyclades.

Agama stellio, Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 368; Anderson, 1898, Zool. Egypt, 1: p. 122, fig. 7; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 775.

Common name -- Starred Agama.

Range--Southeast Europe, west Asia, and northeast Africa.

Specimens collected--183. Map 7.

SINAI: Feiran Oasis (+ 1500 ft. alt.), (25). St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (12), Raba (32), Wadi el Arbaeen (1), Wadi Haroon (1), Wadi el Sheikh (5), between Raba and Wadi Rada (2); mouth of Wadi Rada (3).

FAIYUM: Kom O Shim (3).

MATRUH: EI Amiriya (38); Bahig (9); Bahig, 8.4 km NE of (1). Burg el Arab (38), 1.6 km N of (4), 8 km E of (5), Ras el Hekma (4).

# Uromastix acanthinurus Bell

Uromastix acanthicurus Bell, 1825, Zool, Jour. London, 1: p. 457—near
Biskra, northwards to El Kantara, Algeria (restricted fide Hartert, 1913); Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 780; Anderson, 1898, Zool, Egypt, 1: p. 131, pl. 15; Flower, 1933, Proc. Zool, Soc. London, 1933: p. 780.

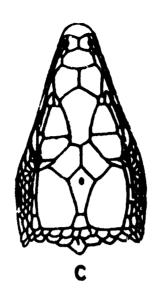
Common name -- Bell's Dabb-Lizard.

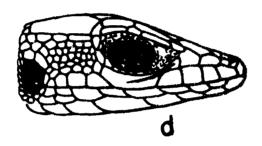
Range -- North Africa and Sinai.

Specimens collected--1. Map 9, SUEZ: Cairo-Suez Road, 39 km (1).

Uromastix aegyptius (Forskal)
Lacerta aegyptia Forskal, 1775, Descr. Anim., p. 13-Egypt.
<u>Uromastix</u> <u>spinipes</u> Gray, Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 407.
<u>Uromastix aegyptius</u> , Anderson, 1896, Herp. Arabia & Egypt, p. 129, pl. 14; 1898, Zool. Egypt, <u>1</u> : p. 129; Flower, 1933, Proc. Zool. Soc. London, <u>1933</u> : p. 779.
Common nameEgyptian Dabb-Lizard.
RangeEgypt, Sinai, and northern Arabia.
Specimens collected15. Map 9.  SINAI: Feiran Oasis (+ 1000 ft. alt.), 16 km W of (1).  SUEZ: Suez (1); Gebel Suez (1); Kutamiya Observatory area (1); Wadi Iseili, 3.2 km NE of Katamiya Observatory (1); Cairo-Suez road (km E of Cairo): not stated (3); 5 (1); 17 (3), 29 (1), 32 (1).  QALUBIYA: Kafr Abu Sir (1).
<u>Uromastix ocellatus</u> (Lichtenstein)
Uromastix ocellatus Lichtenstein, 1823, Verz. Doubl. Zool. Mus. Berlin, p. 107—Nubia; Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 499; Anderson, 1898, Zool. Egypt, 1: p. 127, pl. 12; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 777.
Common nameEyed Dabb-Lizard.
RangeNortheast Africa.
Specimens examined13. Map 9. RED SEA: Bir Abraq (12). SOUTHEASTERN DESERT: Gebel Elba, 3.2 km N or Bir Kansisrob (1).
yromastix ornatus Heyden
Uromastix ornatus Heyden, 1827, in Rüppell, Atlas Reise nörd. Afr., Rept., p. 1—Mohila or Moila, Arabia; Boulenger, 1885, Cat. Liz. Brit. Mus., l: p. 406; Anderson, 1898, Zool. Egypt, l: p. 128, pl. 13; Flower, 1933 Proc. Zool. Soc. London, 1933: p. 779.
Common nameOrnate Dabb-Lizard.
RangeSinai and extreme southwest Asia.
LACERTIDAE
Key to Species of Lacertidae
Movable eyelids absent, i.e. "snake eyes" (Ophisops)

	Lower eyelids movable
<b>2</b> .	Scales on dorsal suface of neck very small and granular; supraoculars separated from superciliaries
	by a series of small granules Ophisops e, elegans (p. 19) Scales on dorsal suface of neck not granular, almost
	as large as those on back; supraoculars in contact with supraciliaries (Fig. 3) Ophisops elbaensis (p. 19)





# FIGURE 3. Holotype of Ophisops elbaensis (from Schmidt and Marx, 1937, figs. 3C & D).

3.	Digits, expecially fourth toe, with well developed lateral fringes (Acanthodactylus)		
4.	All dorsal scales small and granular		
<b>S</b> .	Four rows of scales around fingers . Acanthodactylus s. scutellatus Three rows of scales around fingers Acanthodactylus p. pardalis	(,\. (p.	17) 16)
6.	Four rows of scales around fingers	-	
7.	Belly scales in less than eight longitudinal rows; nostril in contact with first upper labial Belly scales in eight or more longitudinal rows; nostril not in contact with first upper labial (Eremias)		
8,	Longitudinal mid-dorsal scale rows distinctly enlarged (Fig. 4A)		

9.	Frontal separated from supraoculars by ring of small granules Frontal in contact with supraoculars .										
10.	Nasals in broad contact behind rostral Nasals not in contact behind rostral	•	•	•		Er	enia	i R.	guttulata	(p.	17)
	(rarely just meeting)	•	•	•	•	• •		• •			11
11.	Occipital present and in contact with the interparietal					Ere	معند	Lup	ropunctata	(p.	18)
	not in contact with the interparietal					Ere	mia	bre	virostris	(p.	17)

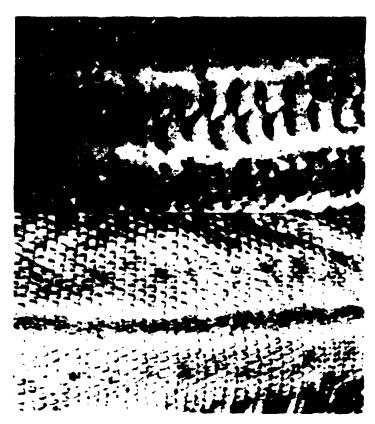


FIGURE 4. Dorsal scales of (A) Philochortus intermedius - FWNH 154611 and (B) <u>Latastia</u> longicaudata - FWNH 73620.

# #Z#D\$#Q##C\$X}## P######## mape: (Audouin)

Lacerta ampera Audouin, 1829. Descr. Egypte, Rept., Suppl., p. 173, pl. 1,
fig. 9—Egypt.

Acanthodactylus boskisnus var. asper, Lataste, 1885, Anr. Mus. Genova, (2), 2: p. 496; Boulenger, 1921, Monog. Lacertidae, 2: p. 88.

ACARTHOGACTYLUS hoskianus, Boulenger (part), 1887, Cat. Liz. Brit. Mus., 3: p. 59; Anderson, 1898, Zool. Egypte, 1: p. 148, pl. 20; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 792.

Common Name--Bosc's Lizard.

Range--Eastern Morocco to Eritres and southwestern Asia.

Specimens collected--325. Maps 10 & 10A.

SINAI: Bir Thal (near sea level) (1); Feiran Oasis (+ 1500 ft. alt.) (27), 1.6 km E of (3); St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (14), between Raba and Wadi Rada (29), Wadi el Arbaeen (5), Wadi el Sheikh (2). PORT SAID: El Gamil Beach (1). ISMAILIA: El Ballah (1). SUEZ: Ain Sukhna area (2); Wadi Iseili tributary, 21 km E of Katamiya Observatory (19); Wadi Naam (1); Cairo-Suez road, near halfway mark (6); Wadi Qiseib (6); Wadi Doum area (2). Wadi el Nil, S of Abu Darag (4); Fawakhir Mine area (1). RED SEA: SOUTHEASTERN DESERT: Halaib, 22.4 km N of (3), 20.8 km N of (1); Bir Sarara (2); Wadi Aideib, 3.2 km N of Bir Kansisrob (1) DAMIETTA: Kafr el Battikh (1). SHARQIYA: El Abbassa (3), QALUBIYA: El Marg (1); Kafr Abu Sir (3). KAFR EL SHEIKH: Baltim (7); El Sheikh Mubarak (12). QALUBIYA: BEHEIRA: El Birigat (1); Abu el Matamir (4). CAIRO: Abbasia (2); Gebel el Ahmar (1); Ain Shams (4); Masdi (2); Helwan, Wadi Hof (3); Helwan, 1.6 km S of (1).
GIZA: Cairo, 6 km W of (3); Mit Riheina (3); Giza Pyramids (10); Giza (1); Kirdasa (1); Abu Rawash (5); Abu Rawash, 6.4 km .iW of (2); El Mansuriya (5); Manshiyet Radwan (2); Birqash (2); Abu Ghalib (1). FAIYUM: Qarun, Gezeiret el Qurn (1); Kom O Shim (32); Kafr Mahfur

(23). ASYUT: Durunka (4).

ASWAN: Aswan (2); Aswan, 1.6 km SE of (3); Wadi Umm Karayiet (1);

Wadi Haimur (3).

MATRUH: Wadi Natroun (12); El Amiriya (1); Burn el Arab (9); Mersa Matruh (10), 8 km E of (1), 1.6 km E of (2), 32 km W of (1); Sidi Barrani (1), 19.2 km E of (1), 3.2 km E of (5), 48 km W of (2).

# Acanthodactylus cantoris arabicus Boulenger

Acanthodactylus cantoris var. arabicus Boulenger, 1918, Bull. Soc. Zool. France, 43: p. 154--southern Arabia; 1921, Monog. Lacertidae, 2: p. 95.

Acanthodactylus cantoris arabicus, Parker, 1931, Ann. Mag. Nat. Hist., (1), 8: p. 521.

Range--Southern Arabia to Sinai.

Bons, Girot, and Pasteur (1960) report this species from Sinai;
Hoofien (1965) rejects it from Sinai.

# Acanthodactylus pardalis pardalis (Lichtenstein)

Lacerta pardalis Lichtenstein, 1823, Verz. Doubl. Mus. Berlin, p. 99-Egypt.

Acanthodactylus pardalis, Boulenger, 1887, Cat. Liz. Brit. Mus., 3; p. 65; 1921, Monog. Lacertidae, 2: p. 62; Anderson, 1898, Zool. Egypt, 1: p. 151, pl. 21; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 794.

Scanthodactylus pardalis pardalis, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 61.

Common name -- Egyptian Leopard Lizard.

Range--northern Africa, from Tripoli to Israel.

Specimens collected--108, Map 11.
| SiNAI: St. Catherine's Monastery area, between Rrbs and Wadi Rada (+ 5000 ft. slt.) (1).
| PORT SAIDT | El Gamil Beach (4... | DAMIETTA: | Eafr el Battikh (1).

BEHEIRA: Abu el Matamir (11).

GIZA: Giza Pyramids (1); Abu Rawash (1). FAIYUM: Kom O Shim (1); Kafr Mahfuz (1).

MATRUH: Cairo-Alexandria desert road, 179 km NW of Cairo (4); Wadi Natroun (8); Bahig (10); Burg el Arab (10); El Hauwariya (26); Mersa Matruh (24); Mersa Matruh, 5 km W of (1); Sidi Barrani (2); Sidi Barrani, 19,2 km S of (1); Salum, 32 km SW of (1).

# Acanthodactylus scutellatus scutellatus (Audouin)

Lacerta scutellata Audouin, 1829, Descr. Egypte, Rept., Suppl., p. 172, pl. 1, fig. 7—Egypt.

Acanthodactylus scutellatus, Duméril and Bibron, 1839, Erp. Gén., 5: p. 272;
Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 64; 1921, Monog. Lacertidae,
2: p. 97; Anderson, 1598, Zool. Egypt, 1: p. 161, pl. 22; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 795.

Acanthodactylus scutellatus scutellatus. Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 61.

Commer name -- Nidua Lizard.

Range--Algerian Sahara to southwest Asia.

Specimens collected--91. Map 11.

SINAI: St. Catherine's Monastery area, between Raba and Wadi Rada (+ 5000 ft. alt.) (1).

SOUTHEASTERN DESERT: Gebel Elba, Bir Kansisrob (1).

QALUBIYA: Kafr Abu Sir (1).

BEHEIRA: El Birigat, 1 km W of (1).

CAIRO: Helwan, Wadi Hof (1)

GIZA: Giza Pyramids (17); Abu Rawash (6); Kom Bira (1); El Mansuriya

(6); Abu Ghalib, 1.6 km W of (4); Cairo-Alexandria desert road, 10 km W of Cairo (2).

FAIYUM: Kom O Shim (9); Kafr Manfuz (6); Wadi Muwellih (19).

MINYA: El Bahnasa (1).

asyan Wadi Asimur (1)

MATRUE: Bir Victoria (1); Wadi Natroun (1); El Alamein (1); Salum (1); Salum, 3.2 km SW of (1); Siwa Oasis (2); Siwa Oasis,

Ain Shefa (7).

# Eremias brevirustria (Blanford)

Mesalina brevirostris Blanford, 1874, Ann. Mag. Nat. Mus., (4), 14: p. 32-Kalahagh, Punjah and Tumb Island, Persian Gulf (type locality restricted to Kalabagh by Schmidt, 1939).

Eremias brevirostris, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 89; 1921, Monog. Lacertidae, 2: p. 273; M. A. Smith, 1935, Fauna Brit. India, Rept. & Amph., 2: pl 390.

Range -- Sinai to northwestern India. Hoofien (1957) records this species in Sinai: from Tiran Island off the southern tip and Ras Muhammad; on the tip across from Tiran Island. Map 12.

# Eromias guttulata guttulata (Lichtenstein)

Lacerta zuctulata Lichenstein, 1823, Verz. Doubl. Mus. Berlin, p. 101-Egypt and Nubia.

Kremias guttulata, A. Smith, 1845, III. Zool. S. Afr., Rept., pl. 48, fig. 8; Boulenger, 1887, Cat. Liz. Brit. Mus., 3:p. 87, 1921, Monog. Lacertidae, 2: p. 258; Anderson, 1898, Zool. Egypt, 1: p. 174, pl. 23, figs. 3-4; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 797. Eremias guttulata guttulata, Wettstein, 1928, Sitzber. Akad. Wiss. Wien (math.-natur.), 137: p. 782.

Common name -- Small-spotted Lizard; Long-tailed Desert Lacerta.

Range--north Africa to Iraq.

Specimens collected--111. Map 13.

SINAI: Feiran Oasis (+ 1500 ft. alt.) (1); St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (10), Raba (2), between Raba and Wadi Rada (8), Wadi el Arbaeen (3), Wadi el Sheikh (4).

SUEZ: Wadi Qiseib (2); Wadi Iseili, 11.2 km NW of Kutamiya Observatory (1).

RED SEA: Ras Zafarana, Wadi Araba (1). SOUTHEASTERN DESERT: Gebel Elba (2).

GIZA: Mit Riheina (2).

QENA: Luxor (1). ASWAN: Wadi Haimur (1); Wadi Umm Karayiet (1); Wadi El Nagib (1). MATRUH: Wadi Natroun (5); Cairo-Alexandria desert road, 179 km NW of Cairo (1); El Amiriya (1); Bahig (21); Burg el Arab (13); El Hauwariya (3); Ras el Hekma (1); Mersa Matruh (13); Mersa Matrun, 8 km E of (6); Mersa Matruh, 1.6 km E of (1); Salum 3.2 km E of (1); Bir Sheferzen (2); Siwa Oasis (2); Siwa Oasis, Ain Shefa (1).

#### Eromias mucronata (Blanford)

Acanthodactylus mucronatus Blanford, 1870, Zool. Abyss., p. 453, fig. -Anseba Valley, Eritrea,

<u>las mucronata</u>, Anderson, 1898, Zool. Egypt, 1: p. 169, pl. 23, figs.1-2; Boulenger, 1921, Vanog. Lacertidae, 2: p. 244; Flower, 1933, Proc. Zool. Soc. Egypt, 1933: p. 796.

Common name -- Aseba Lizard.

Range--Sinai south to Eritrea and Somalilands.

Specimens collected--1. Map 13. SOUTHEAST DESERT: Halaib, 16 km N of (1).

# Eremias rubropunctata (Lichtenstein)

Lacerta rubropurctata Lichenstein, 1823, Verz. Doubl. Mus. Berlin, p. 100-Egypt and Nubia.

Eremias rubropunctata, Duméril and Bibron, 1839, Erp. Gén., 5: p. 297;

Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 89; 1921, Monog. Lacertidae,
2: p. 276; Anderson, 1898, Zool. Egypt, 1: p. 183, pl. 23, figs. 5-6;
Flower, 1933, Proc. Zool. Soc. London, 1933: p. 798.

Common name -- Red-spotted Lizard.

Range--North Africa from Algeria to Sinai.

Specimens collected--34.

SUEZ: Ain Sukhna (1).

RED SEA: Ras Gharib (1).
GIZA: Giza Pyramids (1); El Mansuriya (1); Abu Rawash (11); Abu Rawash, 6.1 km NW of (1); Cairo-Alexandria desert road, km W Cairo: 6(2), 10(2), 17(2).

FAIYUM: Kom O Shim (3), Kair Mahfuz (4).
ASWAN: Wadi el Allaqi, 11.2 km S of (2).
MATRUH: El Amiriya (1); El Maghra Oasls (1); Salum, 19.2 km SW of (1).

Latastia longicaudata longicaudata (Rouss). Figure 4B

Lacerta longicaudata Reuss, 1834, Mus. Senckenb., 1: p. 29-Ethiopia.

Latastia longicaudata, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 55; 1921, Monog. Lacertidae, 2: p. 25; Anderson, 1898, Zool. Egypt, 1: p. 143, pl. 19; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 792.

<u>Latastia longicaudata longicaudata</u>, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 60.

Common name -- Long-tailed Lizard.

Range--Senegal and nothern Nigeria to Ethiopia, northward along the Red Sea to Sinai.

Specimens collected--4. Map 14.
SOUTHEASTERN DESERT: Halaib, 20.8 km W of (1); Wadi Aideib, N of Bir Kansisrob: 3.2 km (1), 4 km (2).

Ophisops elbaensis Schmidt and Marx. Figure 3.

Ophisops elbaensis Schmidt and Marx, 1957, Bill. Zool. Soc. Egypt (1955-1956), no. 13, p. 20—Wadi Kansisrob, Gebel Elba, Sudan Government Administrative Area, Egypt. + 4,000 ft. alt.

Common name--Mount Elba Snake-eyed Lizard (here constructed).

Range--Known only from the type locality.

Specimens collected--1. Map 14.
SOUTHEASTERN DESERT: Gebel Elba, Wadi Kansisrob (1).

Ophisops elegans elegans Ménétries

Ophisops elegans Menétries, 1832, Cat. Rais, p. 63—near Baku, Caspian Sea:
Boulenger, 1887, Cat. Liz.Brit. Mus., 3: p. 75; 1921, Monog. Lacertidae,
2: p. 211; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 796.

Ophisops elegans elegans, Lantz, 1931, Bull. Mus. Georgia, 6: p. 31.

Common name -- Menétries's Lizard.

Range--Northeast Africa, southwest Asia to Transcapica.

Specimens collected--9. Map 14. RED SEA: Ras Zafarana, Wadi Araba (2) MATRUH: Burg el Arab (6); Salum (1).

Philochortus intermedius Boulenger. Figures 4A and 5.

Philochortus intermedius Boulenger, 1917, Proc. Zool. Soc. London, 1917:

p. 152, pl. 2, figs. 2-3-Wagga and Berbera, northern Somaliland; 1921,
Monog. Lacertidae, 2: p. 9.

Range--northern Kenya to northern Somaliland; Egypt.

Specimens collected--8. Map 14. MATRUH: Wadi Natroun (8),

These eight specimens are the first recorded <u>Philochortus</u> from Egypt. They appear not to differ from Boulenger's (1921) description of this species or from one of the syntypes (MCZ 28695). This record extends the range of <u>Philochortus</u> <u>intermedius</u> approximately 1200 airmiles north-northeast. The nearest member of this genus (see below) is approximately 400 air-miles to the west.

A second specimen of <u>Philochortus zolli</u> Scortecci (MCZ 46850) is here recorded from Cyrendica (35 miles west of Ajedabja, 10 miles south of Libyan Coast). This specimen conforms closely to the original

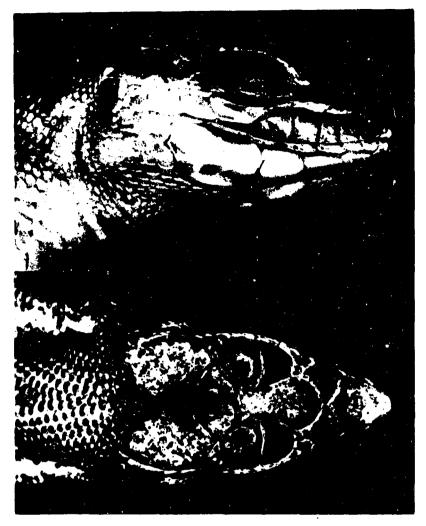




FIGURE 5. Philochortus intermedius - FMNH 152606.

description of  $\underline{zolli}$  and differs from the Egyptian  $\underline{intermedius}$  in having the prefrontals separated from each other, frontal length equal its distance to snout (longer in CNHM 152606-07, 154606-11), and a very narrow interparietal.

The possibility of distinguishing P. zolli from P. intermedius at the specific level must await the availability of adequate samples from

geographically intermediate populations.

External morphological features of Egyptian P. intermedius can be seen in Figures 4A and 5. The following data are descriptive counts of these eight lizards: dorsal-lateral scale rows at mid-body 31-37 (mean 33.9 [8]); ventral plates at mid-body 6; labials anterior to the subocular 4-6 (4.9 [16]); large upper temporals adjacent to the parietal 1-2; femoral pores 10-14 (12.3 [16]); lamel ae under fourth toe 28-36 (31.3 [16]); snout-vent length 52-73mm.; tail length of the six lizards with complete tails 149-215 mm.; six white narrow longitudinal lines; three of the eight animals have a small scale between the prefrontals.

These animals were collected in a desert cultivated with barley; 15

March, 1964 and 26-27 May, 1965.

# VARANIDAE

# Key to the Species of Varanidae

1. Nostril an elongated slit very close to eye . . . Varanus g. griseus (p. 21) Nostril small, round, and about midway between eye and end of snout . . . . . . . . Varanus n. niloticus (p. 21)

Varanus griseus griseus (Daudin)

Tubinambis griseus Daudin, 1803, Hist. Nat. Rept., 8: p. 352.

<u>Varanus griseus</u>, Boulenger, 1885, Cat. Liz. Brit. Mus., 2: p. 306; Anderson, 1898, Zool. Egypt, 1: p. 134, pl. 16; Mertens, 1942, Abh. Senckenberg, Naturf. Ges., 466: p. 338.

Varanus griseus griseus, Mertens, 1954, Senckenb. biol., 35: p. 354.

Common name--Desert Monitor.

Range--Southwest Asia and northern Africa to Rio de Oro.

Specimens collected--24. Map 15.
SOUTHEASTERN DESERT: Wadi Aideib, 3.2 km N of Bir Kansisrob (2).

SHARQIYA: Tel el Kebir (1).

El Birigat. 1 km W of (1); El Khataba (2); Abu el Matamir, BEHEIRA: 12 km W of (1).

GIZA: Giza Pyramids (1); Abu Rawash (1); El Qatta (8); Abu Ghalib (1).

FAIYUM: Wadi Muwellih (2).

MINYA: El Bahnasa (1).

MATRUH: Sidi Barrani: 3.2 km S of (2), 48 km W of (1).

# Varanus niloticus niloticus (Linnaeus)

Lacerta nilotica Linnaeus, 1766, ed. 12, 1: p. 369--Egypt.

Varanus niloticus, Boulenger, 1885, Cat. Liz. Brit. Mus., 1: p. 317; Anderson, 1898, Zool. Egypt, 1: p. 140, pl. 18; Flower, 1933, Proc. Zool Soc. London, 1933: p. 801.

Varanus niloticus niloticus, Mertens, 1942, Abh. Senckenberg. Naturf. Ges., 466: p. 320.

Common name -- Nile Monitor.

Range--Southern and tropical Africa; along the Nile into Egypt.

# SCINCIDAE

# Key to Species of Scincidae

1.	Toes with broad fringes
2.	Dorsal scales keeled (Mabuya)
3.	Forelimb, when laid back along the side, covers more than half the distance between shoulder and insertion of hindlimb Mabuya g. quinquetaeniata (p. 24) Forelimb, when laid back along the side, covers less than half the distance between shoulder and insertion of hindlimb
4.	Dorsal scales grooved
5.	Snout with sharp horizontal edge
6.	Eyelids absent, pupil always visible, i.e., "snake eyed"
7.	Anterior border of ear opening with a fringe of conical scales; lower eyelid scaly <u>Eumeces schneideri</u> (p. 23) Anterior border of ear opening smooth; lower eyelid with a transparent disk <u>Chalcides o. ocellatus</u> (p. 22)
Able	epharus kitaibeli Bibron and Bory
	Ablepharus kitaibelii Bibron and Bory, 1833, in Bory, Exped. Sci. Moree, 3: p. 69, pl. 11, fig. 5—Ruins of Pylos, Messenia; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 786.
	Common nameHungarian Skink.
	RangeSoutheast Europe and west Asia.
Cha	lcides ocellatus ocellatus (Forskål)
	<u>Lacerta ocellata</u> Forskål, 1775, Descr. Anim., p. 13—Egypt.
	Chalcides ocellatus, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 400; Anderson, 1898, Zool. Egypt, 1: p. 210, pl. 28, fig. 1: Flower, 1933, Proc. Zool. Soc. London, 1933: p. 789.
	Chalcides ocellatus ocellatus, Wettstein, 1928, Sitzber. Akad. Wiss. Wien, machnatur., 137, abt. 1, p. 784.
	Common nameEyed Skink; Ocellated Skink.
	RangeNorth Africa to Israel.
	Specimens collected259. Map 16.  SINAI: Bir Thal (near sea level) (1); near and in Feiran Oasis (+ 1500 ft. alt.) (3); St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (1), Wadi el Sheikh (2).  SUEZ: Ain Sukhna (1); Wadi Iseili tributary, 24 km E of Kutamiya

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Observatory (1); Cairo-Suez rosi + 100 km E of Cairo (2).
             DAMIETTA: Damietta (5); Gheit el Nasara (2).
             DAQAHLIYA: Mit Mazzah (3); Shawa (1); Minshat el Ikhwa (2); Mit
                           Ghamer (3); Minshat el Sughra (1).
El Abbassa (1); Abu Suwerr (5); Tel el Kebir (2); Abu
             SHARQIYA:
                           Kebir (3); El Beirum (1); El Gantara (1); El Huseiniya (1).
                         Sindbis (1); Tel el Atrib (2).
Basyun (1); Talkha (1).
             CHARBIYA: Basyun (1); Talkha (1).
BEHEIRA: El Birigat (4); Hafs (1).
             CAIRO: city (1); Abbassia (2); Zenhom (1); Helwan (1); Dokki (4).
                     El Burumbul (4); Mit Riheina (2); Abu Sir (1); Faiyum road,
                      10.5 km SW of Giza (4); Giza Pyramids (3); Abu el Numrus (2);
                      Zawyet Abu Musallam (3); Saft el Laban (1); Abu Rawash (8);
Abu Rawash, 6.4 km NW of (5); Kafr Hakim (2); El Mansuriya (12);
                      Manshiyit Radwan (5); Nikla (4); Mitimdiya (1); Minshat el
                      Bakkari (1).
Kom O Shim area (37).
             FAIYUM:
                       El Mawadda (2); Samalut (1); El Birba el Kubra (1).
             MINYA:
                       Durunka (2); Wadi Asyuti (1).
              ASYUT:
             MATRUH:
                       Wadi Natroun (12); El Amiriya (6); Bahig (10); Bahig, 24 km
                        S of (1); Burg el Arab (26); Mersa Matruh: Mersa Matruh (9), 20 km E of (1), 16 km E of (1), 8 km E of (1); Sidi Barrani, 30.4 km E of (2), 19.2 km E of (1), 1.6 km S of (2), 9.6 km W of (3), 48 km W of (2); Salum (2), 12.8 km E of (3), 3.2 km E
                        of (1), 4.8 km E of (1); Siwa Oasis (11); El Bahrein Oasis (1).
Chalcides sepsoides (Audouin)
      Scincus sepsoides Audouin, 1827, Descr. Egypte, Rept., Suppl., p. 180, pl. 2,
            figs. 9-10-Egypt.
      Chalcides sepsoides, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 407;
            Anderson, 1898, Zool. Egypt 1: p. 220, pl. 28. fig. 2; Flower, 1933,
            Proc. Zool. Soc. London, 1933: p. 790.
        Common name -- Audouin's Sand-Skink.
        Range--Northern Africa (Sinegambia) to southwestern Asia (Israel).
        Specimens collected--58. Map 17.
              SUEZ: Ain Sukhna (1); Wadi Gindali (1); Cairo-Suez road: 48 km W of Suez (3), 35 km E of Cairo (1).
              ISMAILIA: Ismailia, 6.4 km W of (2).
              SHARQIYA: Tel el Kebir (1).
GIZA: El Saff (1); El Burumbul (3); Giza Pyramids (1); Zawyet Abu
                       Musallam (1); Abu Rawash (4); Kafr Hakim (2); El Mansuriya (9);
                       Birqash (2); El Qatta (1),
              FAIYUM: Kom O Shim (7); Kafr Mahfuz (1); Dimu (1); El Lahun (1);
                         Wadi Muwellih (1).
                        Durunka, 4.8 km NW of (1).
                        Wadi Natroun (3); Sidi Barrani, 19.2 km E of (1); Sidi
              MATRUH:
                         Barrani, 48 km W of (1); Salum (2); Salum, 32 km E of (1); Bir El Shaqqa (+ 560 ft. alt.) (1); Siwa Oasis (4).
Eumeces schneideri (Daudin)
      Scincus schneideri Daudin, 1802, Hist. Nat. Rept., 4: p. 291-West Asia.
      Eumeces schneideri, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: 383;
            Anderson, 1898, Zool. Egypt, 1: p. 196, pl. 25; Flower, 1933 Proc. Zool. Soc. London, 1933: p. 787.
         Common name -- Gold Skink; Orange-tailed Skink.
         Range-North Africa and west Asia.
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Specimens collected--109. Vap 18.

SINAI: Saint Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (2), between Raba and Wadi Rada (2); Raba (3), Wadi el

Sheikh (2).

BEHEIRA: Abu el Matamir (2).

El Amiriya (5); Dikheila, 4.8 km W of (2); Ikingi Mariut (3); Bahig (15); Burg el Arab (58); Ras El Hekma (1); El Alamein MATRUH: (1); Alexandria, 64 km W of (1); Sidi Barrani: 19.2 km S of

(2), 48 km W of (7); Siwa Oasis (3).

Mabuya quinquetaeniata quinquetaeniata (Lichtenstein)

Scincus quinquetaeniata Lichtenstein, 1823, Verz. Doubl. Mus. Berlin, p. 103 -Egypt and Nubia

Mabuya <u>quinquetaeniata</u>, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 198; Anderson, 1898. Zool. Egypt, <u>1</u>: p. 187, pl. 24, figs. 1-3; Flower, 1933, Proc. Zool. Soc. London, <u>1933</u>: p. 785.

Mabuya quinquetaeniata quinquetaeniata, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 68.

Common name--Bean Skink.

Range--North of Uganda to Egypt.

Specimens collected--41. Map 19.

SHARQIYA: Abu Suweir (1); Tel el Kebir (1); Abu Kebir (1).

QALUBIYA: El Marg (1).

CAIRO: Abbassia (2); Shoubra (2); Helwan (1).

GIZA: El Burumbul (1); Zawyet Abu Musallam (1); Abu Rawash (2); Abu Rawash, 6.4 km NW of (1); Nahya (2).

FAIYUM: Kom O Shim (1).

MINYA: Idmu (1). ASYUT: Durunka (1)

QENA: Wadi Nassim (3).

ASWAN: Aswan (10); Ballana (2); west bank of Nile River (4).

MATRUH: El Amiriya (3).

Ngbaya vittata (Olivier)

Scincus vittatus Olivier, 1804, Voy. Emp. Ottoman, 3: p. 103-sands west of Rosetta

Mabuya vittata, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 176; Anderson, 1898, Zool. Egypt, 1: p. 193, pl. 24, fig. 4; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 784.

Common name -- Bridled Skink,

Range -- North Africa and southwest Asia.

Specimens collected-+1. Map 19. DAVIETTA: Kafr el Battikh (1),

Scincopus fasciatus (Peters)

Scincus (Scincopus) fasciatus Peters, 1864, Mon. Berl. Ak., p. 45-6eryville,

Scincus fasciatus, Boulenger, 1867, Cat. Liz. Brit. Mus., 3: p. 390.

Scincopus fasciatus, Anderson, 1896, Herpet, Arabia & Egypt, p. 104; 1898. Zool, Egypt, 1: p. 201, pl. 21.

Common name -- treyville Skink.

Range -- Saharan North Mfrica from Mauritania to Khartoum, Sudan.

This species has not been collected in Egypt. Flower (1933: p. 784) comments on its range and its expectancy in Egypt.

#### Scincus scincus scincus (Linnaeus)

Lacerta stincus Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 205—Libya, Egypt, and Arabia Petreae.

Scincus officinalis Laurenti, Boulenger, 1887, Cat. Liz. Brit. Mus., 3: p. 391; Anderson, 1898, Zool. Egypt, 1: p. 205, pl. 27.

Scincus stincus, Flower, 1933, Proc. Zool. Soc. London, 1933: p. 788.

Scincus scincus scincus, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 72.

Common name -- Sandfish.

Schmidt and Marx (1956) comment on the erroneous spelling of the species name.

Range--northeastern Africa.

Specimens collected -- 87, Map 18,

SHARQIYA: Minyet Salamant (3); Tel el Kebir (1). MINUFIYA: Quweisna (2).

BEHEIRA: El Khataba (2)

GIZA: Giza Pyramids (22): Zawyet Abu Musallam (1); Abu Rawash area

(17); El Mansuriya (8); Manshivet Radwan (10); Cairo-Alexandria desert road, W of Cairo: 6 km (2), + 10 km (1).

FAIYUM: Wadi Muwellih (6).

BENI SUEF: Waidum (2).

ASYUT: Beni Adi (6); Durunka, 4.8 km NW of (1).

MATRUH: Wadi Natroum (1); Burg el Arab (2).

#### CHANAFLEONTIDAE

#### Chamaeleo chamaeleon chamaeoleon (Linnaeus)

Lacerta chamaeleon Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 204-North Africa.

Chamaeleon chamaeleon chamaeleon, Werner, 1911, Das Tierreich, 27: p. 10.

Common name -- Common or European Chamaeleon.

Range--South Europe, North Africa, and Southwestern Asia.

Specimens collected -- 86. Map 15.

SUEZ: Saray el Bayda (1); Wadi Nasuri, + 32 km E of Cairo (2).

BEHEIRY Hafs (10).

ALEXANDRIA: Alexandria, 4.8 km W of (1),

MATRUH: Wadi Natroun (22); El Amiriya (3); Bahig (21); Burg el Arab

(13); El Daba (1); El Maghra Casts (2); Mersa Matruh (7);

El Garasla (1); Sidi Barroni, 3.2 km S of (1); Salum (1).

#### Suborder SERPENTES

### Key to Species of Snakes

1. Ventral shields same as dorsal scales 

	Ventral shields distinctly larger than dorsal scales
2.	Midbody scale rows 14
3.	Underside of rostral rounded; shout not hooked in profile Leptotyphlops cairi (p. 28) Underside of rostral concave; shout hooked in profile Leptotyphlops macrorhynchus (p. 28)
4.	Head covered with small scales
5.	Head not distinct from neck; no fangs (boas)
6.	Scales between cyas across head 5-8; mental groove absent or very faint
7.	Subcaudals single
8.	Scales on shout smooth or slightly keeled; 3-4 series of scales between eye and upper labials
9.	Gulars, ventrals, and subcaudals keeled; keels of lateral scales serrated
10.	Scale between eyes 9-13; ventrals less than 130
11.	Loreal absent
12.	Dorsal scales keeled throughout entire length of body
13.	Anal plate single (venomous)
14.	Subcaudals single (viper)
15.	Subsculars exclude eye from upper labials; . anterior temporal
16.	Scales keeled posteriorly; uniformly blackish, large snake (venomous, elapid) Figure 10

17.	Belly spotted or blotched Eirenis coronella (Belly not spotted or blotched Eirenis coronelloides (Belly not spotted or blotched		
18.	No upper labials enter eye Spalerosophis diadema cliffordi (At least one upper labial enters eye	p.	38) 19
19.	Dorsal scales strongly keeled	p.	35) 20
20 .	Dorsal suface of snout with longitudinal concave furrow	p.	35) 21
21.	Profile of head distinctly and sharply convex	р. 	34) 22
22.	One anterior temporal	<i>.</i>	23 26
23.	Anal plate entire Lycophidion c. capense (	р.	33) 24
24.	Scale rows more than 15	 p <i>,</i>	25 34)
25.	Belly spotted or blotched		
26.	Loreal enters eye below preocular		
27 .	Loreal very elongate, at least twice as long as broad		2 <del>8</del> 30
28.	Continuous narrow dark longitudinal band on side of head		29
29 .	Belly with a broad black longitudinal band (Figure 8B); ventrals less than 180		
	or no markings; ventrals more than 180 <u>Psammophis schokari aegyptius</u> (	р.	37)
30.	Lateral edges of rostral projecting		
31,	Large spots on back; rostral very strongly projecting Lytorhynchus diadema i Black circular bands intecrupted on belly; rostral weakly projecting		
32,	Head squarish; posterior chinshields 2-d, or less than 2-3 length of anterior pair; rear fangs present		
33.	Black circular bands interrupted on belly		
34.	Scales in 19 rows at mid-body	P P	29) 32)

#### TYPHLOPIDAE

# Typhlops vermicularis Merrem

Typhlops vermicularis Merrem, 1820, Tent. Syst. Amphib., p. 158—Greek Islands; Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 21; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 802.

Common name -- Greek Blind Snake,

Range--Southeastern Europe, northeastern Africa, and western and southwestern Asia, as far east as Afghanistan and Turkestan.

#### LEPTOTYPHLOPIDAE

# Leptotyphlops cairi (Dumeril & Bibron)

Stenostoma cairi Dumeril & Bibron, 1844, Erp. Gen., 6: p. 323-Cairo, Egypt.

<u>Glauconia cairi</u>, Boulenger, 1893, Cat. Sn. Brit. Mus., <u>1</u>: p. 65; Anderson, 1893, Zool. Egypt, <u>1</u>: p. 233, pl. 32, fig. 1, text fig. 9.

Leptotyphlops cairi, Parker, 1932, Proc. Zool. Soc. London, 1932; P. 362; Flower, 1933, ibid., p. 803.

Common name -- Cairo Earth-Snake.

Range -- Northern Africa.

Specimens collected--60. Map 20.

SOUTHEASTERN DESERT: Wadi Aideib, 3.2 km N of Bir Kansisrob (1).

CAIRO: Cairo (1).

GIZA: El Burumbul (3); Mit Riheina (1); Kirdasa (1); Abu Rawash (52);

Birqash (1).

# Leptotyphlops macrorhynchus (Jan)

Stenostoma macrorhynchum Jan, 1862, Arch. Zool. Anat. Phys., 1: p. 190-Sennar.

Glauconia macrorhynchus, Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 61.

Leptotyphlops macrorhynchus, Corkill, 1932, Snakes and Snake Bite Iraq, p. 8.

Common name -- Beaked Thread Snake.

Range--North Africa, southwest Asia to Sind.

Specimens collected--1. Map 20.

SINAI: St Catherine's Monastery area (+ 5000 ft. alt.), Raba (1).

This is the first record of this species from Egypt.

#### BOIDAE

# Eryx colubrinus colubrinus (Linnaeus)

Anguis colubrina Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 228-Egypt.

Eryx thebaicus Reuss, 1834, Mus. Senckenb., 1: p. 134; Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 125; Anderson, 1898, Zool. Egypt, 1: p. 236, pl. 32, fig. 2.

Eryx colubrinus, Flower, 1933, Proc. Zool. Soc. London, 1933: p. 804.

Eryx colubrinus colubrinus, Stull, 1935, Proc. Boston Soc. Nat. Hist., 40:

Common name -- Theban Sand-Boa.

Range--Egypt south to East Africa.

Specimens collected--21. Map 21.

SOUTHEASTERN DESERT: Gebel Elba, 3.2 km N of Bir Kansisrob (4).

FAIYUM: near Lake Qarun (7); Sinnuris (2).

BENI SUEF: Beni Suef (2).

ASYUT: Durunka (4).

MATRUH: Mersa Matruh (2).

# Eryx jaculus jaculus (Linnaeus)

Anguis jaculus Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 228-Egypt.

Eryx jaculus, Daudin, 1803, Hist. Rept., 7: p. 257; Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 125; Anderson, 1898, Zool. Egypt, 1: p. 240, pls. 33-33A; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 805.

Eryx jaculus jaculus, Carevsky, 1915, Ann. Mus. Zool. Petrograd, 20: p. 373, fig. 7; Stull, 1935, Proc. Boston Soc. Nat. Hist., 40: p. 406.

Common name -- Javelin Sand-Boa.

Range--north central Africa eastward into southwestern Asia to the Caspian Sea.

Specimens collected--14. Map 21.

SHARQIYA: Tel Basta (1).

GIZA: Mit Riheina (2); Abu Rawash (1).

MATRUH: Burg el Arab (2); El Hauwariya (1); Sidi Barrani: 32 km E

of (1), 1.6 km W of (1), 19.2 km SW of (1), 19.2 km S of (2),

1.6 km S of (1), 6.4 km S of (1).

#### COLUBRIDAE

# Coluber elegantissimus (Günther)

Zamenis clegantissimus Gunther, 1878, Proc. Zool. Soc. London, 1878: p. 977, pl. 57 - mountains east of El Muwaylah, Midian, Arabia; Hart, 1891, Fauna Flora Sinai, pp. 28 & 209 — Petra, Wady 'Arabah; Boulenger, 1893, Cat. Snakes Brit. Mus., 1: p. 402.

Coluber elegantissimus, Flower, 1933, Proc. Zool. Soc. London, 1933: p. 811.

Common name--Most Beautiful Snake.

Range--Israel, northwestern and central Arabia; probably Sinai.

Specimens examined -- 7.

ISRAEL: Ein Ghadian (Yotvata) (HU 3666; TAU 2281); Bir Hindis (Be'er Ora) (TAU 2871, 5774); Akaba (BMNH 84.6.18.1).
SAUDI ARABIA: near Haile (BMNH 1963-469); Rumaihiya—25 30'N X 47 O'E

(BMNH 1964.152).

This species has not been recorded from Egypt. The specimen from Akaba and auditional material from southern Israel makes this speices occurrence in Sinai almost certain.

Coluber elegantissimus superficially appears to resemble Coluber sinai. The difference between components of the tail, head scutallation, and coloration (Table 3) confirms the distinction of these two species.

CHARACTERS	ELEGANTISSIMUS			SINAI		
Midbody scale rows	19♥		3❖	17₺		3 ℃
Subcaudals: 88	79-84	(81.0) 🕉	3	93+ ∜		1
Subcaudals: 4 7	78-81	(79.5)	4	94		1
Temporals: anterior	2		9	2		3
Tempurals: posterior	2–3	(2.1)	16 🍑	3		6 \$
Relative tail length to total length: ぴぴ	0.243-0.358	(0.319)	3	0.255		1
Relative tail length to total length: 99	0-224-0.250	(0.237)	4	0.260		1
Reduction to two dorsal scale rows on tail counting subcaudals — from vent	55-73	(63.9)	7	67-85	(76.0) 3	2
Reduction to two dorsal scale rows on tail counting subcoudals —— from tip	7-25	(16.6)	7	12-26+		2
Coloration:						
Total black bands	29-39	(34.1)	8	44+ 🛂 51		3
Body and head black bands	21-28	(23.6)	8	21-26	(22.7)	3
Tail black bands	8-13	(10.5)	8	23-30	(25.7)	3
Length of black bands at midbody &	2 1/2 - 5		8	2		3
Length of light interspaces between black bonds at midbody 🍎	4 1/2 - 9		8	2 1/3 - 3		3
Length of dark nape band (3rd band)	51/2 - 9		8	3-4		3_
Central light stripe in midline	present		8	absent		3

 $<sup>\</sup>sqrt[3]{\text{range.}}$  variables of specimens.  $\sqrt[3]{\text{mean in ( ).}}$  deach side of head counted as one.  $\sqrt[5]{a \cdot most \cdot complete \cdot tail}$ .  $\sqrt[6]{a \cdot most \cdot complete \cdot tail}$ . Values of langitudinal dorsal scales on midline.

Table 3. Comperison of certain characters of Coluber elegantissimus and Coluber sinai. Data of the holotype of C. elegantissimus are included in table and taken from original description.

# Coluber florulentus Geoffroy

- Coluber florulentus Geoffroy, 1827, Descr. Egypte, Hist. Nat., 1: p. 151—Egypt; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 811.
- Zamenia <u>florulentus</u>, Boulenger, 1893, Cat. Sn. Brit. Mus., <u>1</u>: p. 402; Anderson, 1898, Zool. Egypt, <u>1</u>: p. 256, pl. 37; fig. 1.

Common name -- Flowered Snake,

Range--Northeast Africa.

Specimens collected--50. Map 22.
DAMIETTA. Damietta (1).
DAQHALIYA: Minshat el Ikhwa (2). SHARQIYA: Tel Basta (1). El Matariya (1). OALUBIYA: GHARBIYA: Mit Nabit (1). BEHEIRA: Hafs (1); Idfina (2). CAIRO: Heliopolis (1); Bab el Shariya (1); Boulac (1).

GIZA: Mit Riheina (1); Giza Pyramids (4); Abu el Numrus (3); El Talbiya (2); Cairo, 4 km W of (1); Abu Rawash (8); Kom Bira (1); El Baragil (1); El Mansuriya (2); Abu Ghalib (1).

FAIYUM: Lake Qarun, Gezeiret el Qarn (1); Kom O Shim (3); Bait el Asfar (2).

BENI SUEF: Beni Suef (3).

MINYA: Maghagha (1); El Birba el Kubra (1).

ASWAN: El Dakka (1).

MATRUH: Wadi Natroun (1); Ikingi Mariut (1).

# Coluber ravergieri Menetries

- Coluber ravergieri Ménétires, 1832, Cat. Rais, Obj. Zool. Voy. Caucase, p. 69-Georgia; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 812.
- Zarenis ravergieri, Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 405; Anderson, 1898, Zool. Egypt, 1: p. 260.

Common name -- Ravergier's Whip-Snake; Coin-marked Snake.

Range--Extreme northeast Africa; western and central Asia. Flower (1933) records this species in Egypt from Helwan; Moharrem Bey, Alexandria; Cairo; Wadi Feiran, Sinai. Map 23.

# Coluber rhodorhachis rhodorhachis (Jan)

- Zamenis <u>rhodorhachis</u> Jan, 1865, <u>in</u> De Filippi, Viagg. Pers. p. 356—Schiras, central Iran (restricted file Kramer and Schnurrenberger, 1963);
  Boulenger, 1893, Cat. Sn. Brit. Mus., <u>1</u>: p. 398; Anderson, 1898, Zool. Egypt, 1: p. 252, pl. 35.
- Coluber rhodorhachis, Parker, 1931, Ann. Mag. Nat. Hist., (10), &: p. 516; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 809.
- Coluber rhodorhachis rhodorhachis, Parker, 1949, Snakes Somalil. Sokotra Ids., p. 37.

Common name -- Jan's Desert Racer; Cliff Racer.

Range--From Libya to northwest India.

Specimens collected--4. Map 23.

St. Catherine's Monastery area (+ 5000 ft. alt.), Wadi el SINAI:

Sheikh (3).

CAIRO: Helwan, Wadi Hof (1).

# Coluber rogersi (Anderson)

Zamenis rogersi Anderson, 1893, Ann. Mag. Nat. Hist., (6), 12: p. 439—desert east of Helwan, near Cairo; 1896, Zool. Egypt, 1: p. 254; Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 623.

Coluber rogersi, Flower, 1933, Proc. Zool. Soc. London, 1933: p. 810. Common name -- Rogers' Snake.

Range--Eastern Libya, Egypt, and extreme southwestern Asia.

Specimens collected--10. Map 23.

SINAI: St. Catherine's Monastery area (± 5000 ft. alt.) (3).

SUEZ: Cairo-Suez road (km E of Cairo);  $\pm$  17 (!),  $\pm$  32 (1). CAIRO: Abbassia (1). MATRUH: Burg el Arab (2), Mersa Matruh (2).

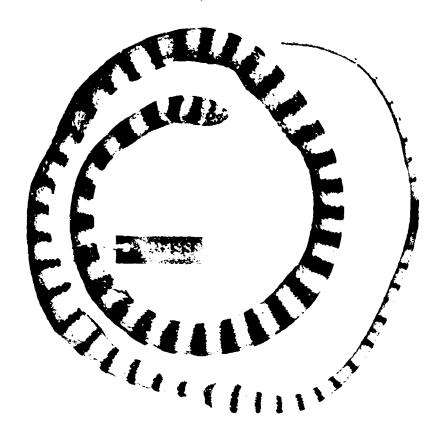


FIGURE 6. Holotype (USNM 134989) of Coluber sinai (after Schmidt and Marx, 1956, fig. 4).

Coluber sinai (Schmidt and Marx) new combination Figure 6

<u>Lytorhynchus</u> <u>sinai</u> Schmidt and Marx, 1956, Fieldiana, Zool, <u>39</u>: p. 30—Wadi Feiran, Sinai Peninsula.

Common name--Sinai-Banded-Snake (here proposed).

Range--Sinai.

Specimens collected--2 (3 examined). Map 22. SINAI: St. Catherine's Monastery area, Wadi el Sheikh (1).

A second specimen (holotype) of this species, from Wadi Feiran, Sinai,

is housed in the United States National Museum. A third specimen was also examined, without locality data. It is somewhat dried and is in several fragments (Giza Museum unnumbered).

Taxonomic notes--This species has a round pupil, apical pits, no exaggerated projecting rostral, and 12 maxillary teeth, the later teeth increasing in size posteriorly. This species is clearly a member of the genus <u>Coluber</u>, for all the above characters are foreign to the genus <u>Lytorhynchus</u>.

For characters distinguishing <u>Coluber sinai</u> from <u>Coluber elegantissimus</u>, a superficially similar species, see Table 3.

## Dasypeltis scabra (Linnaeus)

Coluber scaber Linnaeus, 1758, Syst. Nat., ed. 10, 1: 223—in Indiis (Cape Colony, fide Flower, 1933).

Dasypeltis scabra, Gunther, 1858, Sn. Brit. Mus., p. 142; Boulenger, 1894, Cat. Sn. Brit. Mus., 2: p. 354; Anderson, 1898, Zool. Egypt, 1: p. 278, pl. 34, fig. 3; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 818; Gans, 1959, Ann. Mus. Roy. Congo Belge, (8), 74: p. 141.

Common name -- Egg-eating Snake.

Range--Africa and southeastern Arabia.

# Eirenis coronella Schlegel

Calarmaria coronella Schlegel, 1837, Phys. Serp., 2: p. 48-Jerusalem.

Contia coronella, Boulenger, 1894, Cat. Sn. Brit. Mus., 2: p. 264; Chernov, 1948, Trudy Zool. Inst. Acad. Sci., Leningrad, 7: 119.

Eirenis coronella, Barbour, 1914, Proc. New Eng. Zool. Club, 5: p. 89.

Common name -- Crowned Peace-Snake.

Range--Sinai and southwest Asia.

# Eirenis coronelloides (Jan)

Homalosoma coronelloides Jan, 1862, Anat. Phys., 2: p. 34-Syria.

Contia fasciatus (Jan), Flower, 1933, Proc. Zool. Soc. London, 1933; p. 817.

Contia coronelloides, Chernov, 1948, Trudy Zool, Inst. Acad. Sci., Leningrad, 7: p. 119.

Eremias coronella (non Schlegel), Schmidt and Marx, 1956, Field., Zool, 39:

Common name--Banded Peace-Snake.

Range--Sinai and southwest Asia.

Specimens collected--4. Map 24.

SINAI: St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (3); Raba (1).

The identification of these snakes follows Chernov (1948); two specimens were identified as <u>coronella</u> by Schmidt and Marx (1956).

### Lycophidion capense capense (A. Smith)

<u>Lycodon capense</u> A. Smith, 1831, S. Afr. Quart. Jour., (1), no. <u>5</u>: p. 18—Kurrichange, i.e., Rustenberg, Transvaal.

Lycophidium capense, Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 339.

Lycophidion capensis, Flower, 1933, Proc. Zool. Soc. London, 1933: p. 808.

Lycophidion capense capense, Loveridge, 1933, Bull. Mus. Comp. Zool., 74: p. 233.

Common name -- Cape Wolf Snake.

Range--Africa.

Flower (1933) records a single Egyptian specimen from the Faiyum.

Lytorhynchus diadema (Duméril and Bibron)

Heterodon diadema Dumeril and Bibron, 1854, Erp. Gen., 7: p. 779-Algeria.

Lytorhynchus diadema, Peters, 1862, Monataber. Akad. Wiss. Berlin, 1862; p. 272; Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 415; Anderson, 1898, Zool. Egypt, 1: p. 271, pl. 37, fig. 3; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 815.

Common name -- Diademed Sand-Snake.

Range -- North Africa and southwest Asia.

Specimens collected--15. Map 25.

SINAI: St. Catherine's Monastery area (+ 5000 ft. alt.), Raba (1).
SOUTHEASTERN DESERT: Gebel Elba, 3.2 km N of Bir Kansisrob (1).
GIZA: Abu Rawash (3); Abu Rawash, 6.4 km NW of (3); Manshiyet
Radwan (1); El Qatta (1).

FAIYUM: Kom O Shim (2); Fanus (1); Wadi Muwellih, Bir Dakaar area (1). MATRUH: Burg el Arab (1).

#### Macroprotodon cucullatus (Geoffroy)

Coluber cucullatus Geoffroy, 1827, Descr. Egypte, Hist. Nat., 1: p. 151—Lower Egypt.

<u>Macroprotodon cucullatus</u>, Boulenger, 1891, Trans. Zool. Soc. London, <u>13</u>: p. 149; 1896, Cat. Sn. Brit. Mus., <u>3</u>: p. 175; Anderson, 1898, Zool. Egypt, <u>1</u>: p. 308; Flower, 1933, Proc. Zool. Soc. London, <u>1933</u>: p. 825.

Common name -- Mediterranean Hooded Snake.

Range--southern Europe, northern Africa, and extreme southwestern Asia.

Specimens collected--30. Map 24.

MATRUH: Cairo-Alexandria desert road, 179 km NW of Cairo (1);
Burg el Arab (21); Bahig (1); El Hauwariya (2); Mersa
Matruh, 56 km W of (1); Sidi Barrani: 1.6 km S of (2), 1.6
km NE of (1), 19.2 km SW of (1).

## Malpolon moilensis Reuss

Coluber moilensis Reuss, 1834, Mus. Senck., 1: p. 142-Moilah, Arabia.

Coelopeltis moilensis, Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 143; Anderson, 1898, Lool. Egypt, 1: p. 292.

Malpolon moilensis, Parker, 1931, Ann. Mag. Nat. Hisc., (10), §: p. 522; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 822.

Common name -- Moila Snake.

Range--North Africa and southwestern Asia.

Specimens collected--15. Map 26.

SUEZ: Cairo-Suez road, 17 km E of Cairo (1).

Imbaba (2); Abu Rawash (1); Abu Rawash, 6.4 km NW of (2); El Mansuriya (3); El Qatta (1). GIZA:

FAIYUM: Bait el Asfar (1).

Wadi Natroun (2); Ras el Hekma (1); Sidi Barrnai, 48 km W of MATRUH:

## Malpolon monspessulanus insignitus (Geoffroy)

Coluber insignitus Geoffroy, 1827, Desc. Egypt, Hist. Nat., 1: p. 151-Lower Egypt.

Coelopeltis monspessulana, Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 141; Anderson, 1898, Zool. Egypt, 1: p. 288, pl. 37, fig. 4.

Malpolon monspessulanus insignitus, Mertens and Muller, 1928, Abh. Sench. Ges., 41: p. 51

Malpolon monspessulanus, Flower, 1933, Proc. Zool. Soc. London, 1933: p. 821

Common name -- Montpellier Snake.

Range--North Africa and southwestern Asia.

Specimens collected--86. Map 26.

PORT SAID: Port Said (2); El Gamil Beach (1).

Fariskur, Shata (1); Kafr el Battikh (3). DAMIETTA:

KAFR EL SHEIKH: Balt'm (2); Rosetta (2).

BEHEIRA: Abu el Matamir (4).

MATRUH: El Amiriya (9); El Amiriya, 32 km E of (1); Ikingi Mariut (2); Bahig (2); Burg el Arab (46); Mersa Matruh (1);

Mersa Matruh, 12.8 km E of (1); Sidi Barrani (3), Sidi Barrani: 64 km E of (1), 1.6 km S of (2), 3.2 km W of (1),

19.2 km SW of (1); Siwa Oasis (1).

# Natrix tessellata Laurenti

Coronella tessellata Laurenti, 1768, Syn. Rept., p. 87-Karst County, southern Carniola.

Natrix tessellata, Bonaparte, 1834, Iconogr. Fauna ital., 2: p. 11: Flower, 1933, Proc. Zool. Soc. Egypt, 1933: p. 807.

Tropidonotus tessellatus, Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 233; Anderson, 1898, Zool. Egypt, 1: p. 246, pl. 34, fig. 1.

Common name -- Diced Water Snake.

Range--Europe, northeastern Africa, southwestern and Central Asia.

Specimens collected--6. Map 24.

DAMIETTA: Gheit el Nasara, Lake Manzala (2); Kafr el Battikh (2). KAFR EL SHEIKH: El Burg (2),

Psammophis schokari schokari (Forskal) Figures 7B and 8B

Coluber schokari Forskal, 1775, Descr. Anim., p. 14-Yemen.

<u>Psammophis schokari</u>, Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 157; Anderson, 1898, Zool. Egypt, 1: p. 295, pls. 41-42; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 823.

<u>Psammophis schokari schokari</u>, Kramer and Schnurrenberger, 1963, Rev. Suis e Zool, 70: p. 517.

Common name -- Schokari Sand-Snake; Afro-Asian Sand Snake.

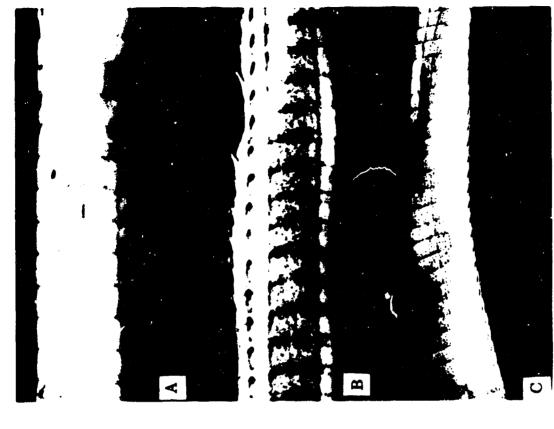




FIGURE 7. Lateral views of heads. A, Psammophis sibilans sibilans (FNNH 63138); B, P. Schokari schokar; (FMNH 66143); C, P. Schokari ackyptius (FNNH 6, 123 - paratype), After Marx, 1958; fig. 30.

FIGURE 8. Ventral color patterns. A, Psammophis sibilans sibilans (FMNH 63138); B, P. schokari schokari (FMNH 66148); C, P. schokari acgyptius (FMNH 65923 - paratype). After Marx, 1958: fig. 31.

Range--North Africa, eastward through Iran, into arid west Pakista:. and India. Specimens collected--79. Map 27. SINAI: St. Catherine's Monastery area (+ 5000 ft. alt.): Monastery area (1), between Raba and Wadi Rada (2), Rada Hardun (2), Wadi el Arbaeen (2). ISMAILIA: Wadi el Gafra, 56 km E of Cairo (1).

SUEZ: Wadi Nasuri, + 32 km E of Cairo (1); Wadi Ghuweibba (1).

RED SEA: Giftun el Schir Island (1).

SHARQIYA: Abu Suweir (1). BEHEIRA: Rosetta, 17 km W of (1). CAIRO: Bab el Shariya (1); Maadi (1). GIZA: Abu Rawash (9); Abu Rawash, 6.4 km NW of (3); El Mansuriya (6); El Qatta (6). ¥: Kom O Shim (1). Auman: Wadi el Kanayis, 15 km E of Idfu (1). MATRUH: Wadi Natroun (3); El Amiriya (3); Bahig (2); Sanyet el Agram (1); Burg el Arab (16); El Maghra Oasis (1); El Daba (1); Mersa Matruh (7); Ras el Hekma (1); Sidi Barrani, 3.2 km NW of (1); Bir El Shaqqa (1); Salum, 48 km E of (1). Psammophis schokari aegyptius Marx Figure 7C and 8C. Psammophis aegyptius Marx, 1958, Fieldiana, Zool., 39: p. 194-Siwa, Siwa Oasis, Western Desert Governorate, Egypt. <u>Psammophis schokari</u> <u>aegyptius</u>, Kramer and Schnurrneberger, 1963, Rev. Suisse Zool., 70: p. 519. Common name--Saharan Sand-Snake (here proposed). Range--Oases of Libyan and Egyptian Sahara Specimens collected--9. Map 27. RED SEA: Wadi Abu Shih (1). FAIYUM: Wadi Muwellih (1). QENA: Luxor (1). ASWAN: Wadi el Nagib (1). MATRUH: Bir Abdel Nabi (1); Siwa Oasis (4). Prammophis sibilans sibilans (Linnaeus) Figure 7A and 8A. Coluber sibilans Linnaeus (part), 1758, Syst. Nat., ed. 10, 1: p. 222-'Asia", Psammophis sibilans, Boie, 1827, in Oken, Isis, 26: col. 547; Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 161: Anderson, 1898, Zool. Egypt, 1: p. 302, pl. 43, text fig. 12; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 824. Psammophis sibilans sibilans, Loveridge, 1940, Bull. Mus. Comp. Zool., 87: Common name -- African Beauty Snake. Range--Africa. Specimens collected--81. Map 28. DAMIETTA: Kair el Battikh (1). GHARBIYA: Talkha (1). BEHEIRA: El Khatatba (6). GIZA: Mit Ribeina (2); Giza Pyramids (3); El Talbiya (2); Cairo, 4 km W of (5); Kirdasa (1); between Kirdasa and Abu Rawash (5); Abu Rawash (18); Kafr Hakim (3); El Mansuria (15); El

Minshat el Bakkarı (1).

Mansuriya, 3.2 km W of (5); Birqash (2); Abu Ghalib (1);

FAIYUM: Kom O Shim (3), Kasr Rashwan (1); Minshat Tantawi (1); Sincuris (1). BENI SUEF: Beni Suef (1). ASWAN: Ballana (1). MATRUH: El Amiriya (2). Spalerosophis diadema cliffordi (Schlegel) Coluber cliffordi Schlegel, 1837, Phys. Serp., 2: p. 163-Tripoli, Libya. Zamenis diadema, Boulenger, 1893, Cat. Sn. Brit. Mus., 1: p. 410; Anderson, 1898, Zool. Egypt, 1: p. 267, pl. 38. Spalerosophis diadema cliffordi, Mertens, 1956, Senck. biol., 37: p.225;
Marx, 1959, Fieldiana, Zool., 39: p. 350. Spalerosophis diadema, Flower, 1933, Proc. Zool. Soc. London, 1933; p. 813. Common name -- Clifford's Snake; Clifford's Royal Snake. Range--North Africa (Morocco and French West Africa) to southwestern Asia (extreme western Iran), Specimens collected--62. Map 29. SINAI: Feiran Oasis (+ 1500 ft. alt.) (1). ISMAILIA: Ismailia, 6.4 km W of (2). SUEZ: Wadi Iseili Tributary, 24 km E of Kutamiya Observatory (1); Cairo-Suez road, 29 km E of Cairo (1). SOUTHEASTERN DESERT: Gebel Elba, 3.2 km N of Bir Kansisrob (1). SHARQIYA: Tel Basta (2); Tel el Kebir (2). MINUFIYA: Quweisna (1). BEHEIRA: Hafs (1). CAIRO: Abbassia (1); Old Cairo (1). GIZA: Abu Sir (1); Giza Pyramids (4); Abu Rawash (8); Minshat el Bakkari (1). FAIYUM: Kom O Shim area (4). BENI SUEF: Beni Suef (7). MATRUH: Wadi Natroun (4); El Amiriya (5); Burg el Arab (3); Bahig (2); Sanyet el Agram (2); Mersa Matruh (3); Siwa Oasis (4). Telescopus dhara obtusus (Reuss) Coluber obtusus Reuss, 1834, Mus. Senckenb., 1: p. 137-Egypt. Tarbophis obtusus, Boulenger, 1895, Ann. Mus. Genova, (2), 15: p. 15; 1896, Cat. Sn. Brit. Mus., 3: p. 52; Anderson, 1898, Zool. Egypt, 1: p. 283, pl. 34, fig. 4; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 820. Tarbophis dhara obtusus, Parker, 1949, Snakes Somaliland Sokotra, Ids., p. Telescopus dhara oltusus, Marx, 1956, U.S. Navy Medical Res. Unit No. 3, Report NM005 050.39,45; p. 8. Common name -- Egyptian Cat-Snake. Range--Northern Africa and Arabia. Specimens collected==20. Map 30. SOUTHFASTERS DESERT: Gebel Fiba, 3.2 km N of Bir Kansisrob (1). CAIRO: Maadi (1); Boulac (2), GIZA: Giza Pyramids (3); Zawyet Abu Musallam (1-USYM); Abu Rawash (N); Abu Rawash Pyramid (1); Abu Ghalib (1); El Magadla (1),

WATRUH. Wadi Natroum (1).



FIGURE 9. Holotype of <u>Telescopus hoogstraali</u>. After Schmidt and Marx. 1956: fig. 5.

Telescopus hoogstraali Schmidt and Marx Figure 9.

Telescopus hoogstraali Schmidt and Marx, 1956, Fieldiana, Zool., 39: p. 33, figs. 5-6-Wadi el Sheikh, St. Catherine's Monastery area, Sinai Peninsula.

Common name--Hoogstraal's Cat-Snake (here proposed).

Range--Sinai.

Specimens collected--2. Map 30. SINAI: St. Catherine's Monastery area (\*\* 5000 ft. alt.), Wadi el Sheikh (2).

## ELAPIDAE

Naja haje haje (Linnaeus)

Coluber haja Linnaeus, 1758, Syst. Nat., ed. 10, 1: 725-Lower Egypt.

Naja haje, Boulenger, 1896, Cat. Sn. Brit. Mus., 3: 374; Anderson, 1898, Zool. Egypt, 1: p. 312, pl. 44; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 826.

Naja haje haje, Pitman, 1938, Guide Snakes Uganda, p. 209.

Common name--Egyptian Cobra.

Range: Africa and Arabia.

Specimens collected -- 19. Map 31.

BEHEIRA: Hafs (3).

CAIRO: Helwan (1).

GIZA: El Mansuriya (2); Birqash (1); Abu Ghalib (2).

FAIYUM: Kom O Shim (1); Minshat Tantawi (1).

BENI SUEF: Beni Suef (2); Biba (1); Bush "El Sabakhaya" (1).

MATRUH: Cairo-Alexandria desert road, 179 km NW of Cairo (1). El Daba (1); Mersa Matruh, 12.8 km E of (1); Sidi Barrani,

19.2 km SE of (1).

## Naja nigricollis nigricollis Reinhardt

Naja nigricollis Reinhardt, 1843, Danske vidensk, Selsk. Skrift., Copenhaven, 10: p. 369—Guinea; Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 378; Anderson, 1898, Zool. Egypt, 1: p. 322, pl. 45; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 826.

Naja nigricollis nigricollis, Loveridge, 1933, Field Mus. Nat. Hist., Zool. Ser., 22: p. 41.

Common name -- Spitting Cobra; Black-necked Cobra.

Range--Africa.

Specimens collected--4. Map 31.

ASYUT: Durunka (1).

QENA: Qena (2); Luxor, 24 km N of (1).

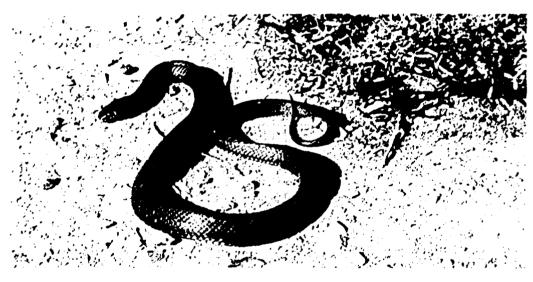


FIGURE 10. Live <u>Walterinnesia</u> <u>aegyptia</u>. Photograph by Robert E. Kuntz. After Marx, 1953: fig. 38.

## Walterinnesia aegyptia Lataste Figure 10.

Walterinnesia aegyptia Lataste, 1887, Le Naturaliste, 1887: p. 411—Egypt;
Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 392; Anderson, 1898, Zool.
Egypt, 1: p. 324, pl. 46; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 827; Marx 1953, Fieldiana, Zool., 34: p. 189.

Common name -- Innes' Cobra.

Range--northeastern Egypt and southwestern Asia.

Specimens collected -- 4. Map 31.

SUEZ: Gebel Suez (1).

RED SEA: Wadi Nasuri, + 32 km E of Cairo (3).

#### VIPERIDAE

# Atractaspis engaddensis Haas

Atractaspis engaddensis Haas, 1950, Copeia, 1950: p. 52-Engaddi Oasis, Israel; Marx, 1952, Copeia, 1952; p. 278

Common name -- Palestinian Mole Viper (here proposed).

Range -- Sinai and Israel.

Specimens collected--2. Map 32. Wadi Feiran (+ 1500 ft. alt.) (1); Feiran Oasis (+ 1500 ft. SINAI: alt.) (1).

# Cerastes cerastes (Linnaeus)

Coluber cerastes Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 217-Oriente.

Cerastes cornutus, Boulenger, 1896, Cat. Sn. Brit. Mus., 3: p. 502; Anderson, 1898, Zool. Egypt, 1: p. 330, pl. 48.

Cerastes cerastes, Anderson, 1899, Bihang. svenska Vet.-Akad. Handl., Stockholm (4), 24: p. 29; Flower, 1933, Proc. Zool. Soc. London. 1933: p. 830.

Common name--Greater Cerastes Viper; Horned Viper.

Range--North Africa and southwestern Asia.

Specimens collected = -53. Maps 33, 33A.

SUEZ: Wadi Doum (1); Wadi Doum, 25 km S of Ain Sukhna (4); Wadi Iseili tributary, 24 km E of Kutamiya Observatory (7); Wadi Gindali (2); Wadi Nasuri, + 32 km E of Cairo (1); Cairo-Suez road, 28.8 km E of Cairo (1); Wadi Naam (1); Wadi Digla, 1.6 km E of Maadi (2); Wadi Hof, 5.5 km NE of Helwan (3); Wadi Qiscib (1); 1 km N of Abu El Darg Lighthouse (1).

RED SEA: Wadi el Bir, near Abu Darag lighthouse (1); Ras Zafarana, Wadi Araba (1); Bir Zafarana (1); Wadi Abu Qaraiya (1); Wadi Fatiri area, E of Abu Kharif (1); Wadi Abu Shih (2); Wadi Abu Shih, 96 km E of Qena (4). SOUTHEASTERN DESERT: Wadi Aideib

Wadi Aideib, 3.2 and 4 km N of Bir Kansisrob (2); Gebel Elba, 3.2 km N of Bir Kansisrob (3).

CAIRO: Wadi Garawi, 16 km SE of Helwan (1).

GIZA: Abu Ghalib (1).

ASYUT: Wadi Asyuti (2). QENA: Wadi Nassim (2).

Aswan, 1.6 km SE of (1); Khor el Allaqi' (2); west bank of

Nile River (1).

MATRUH: El Amiriya (1); Salum, 60 km S of (2).

#### Cerastes vipera (Linnaeus)

Coluber vipera Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 216-Egypt.

Cerastes vipera, Boulenger, 1891, Trans. Zool. Soc. London, 13: p. 155; 1896, Cat. Sn. Brit. Mus., 3: p. 503; Anderson, 1898, Zool. Egypt, p. 327, pl. 47; Flower, 1933, Proc. Zool. Soc. London, 1933; p. 832. Common name--Lesser Cerastes Viper.

Range--North Africa to Arabia.

Specimens collected-48. Maps 32, 33A.
SUEZ. Wadi Iseili, tributary 24 km E of Kutamiya Observatory (1).

BEHEIRA: El Khataba (1).

GIZA: Zawyet Abu Musallam (6); Abu Rawash (1); El Mansuriya (11); El Qatta (1); Abu Ghalib (1); Beni Yusef(1).

FAIYUM: Kom O Shim (2); Wadi Muwellih (14).

MINYA: El bahnasa (4).

MATRUH: Wadi Natroun, 5 km W of (1); El Maghra Oasis (1); Mersa Matruh (1); Sidi Barrani, 40 km W of (1); Siwa Oasis (1).

#### Echis carinatus (Schneider)

Pseudoboa carinata Schneider, 1801, Hist. Amph., 2: p. 285—Arni (bei Madras Indien fide Klemmer, 1936: p. 376).

Echis carinata, Wasler, 1830, Syst. Amph., p. 177; Boulenger, 1896, Cat. Sn. Brit. Mus. 2: p. 504 (ending "us"); Anderson, 1898, Zool. Egypt, 1: p. 336, pl. 49 (ending "us"); Flower, 1933, Proc. Zool. Soc. London, 1933: p. 834.

Common name -- Saw-scaled Viper; Carpet Viper.

Range--Throughout Africa from north of the Equator, ...tinuing throughout southern Asia into India and Ceylon.

Specimens collected--19. Map 34.

SUEZ: Maadi, 4.8 km E of (1).

SOUTHEASTERN DESERT: Wadi Aideib, 4 km N of Bir Kansisrob (1); Gebel Elba, 3.2 km N of Bir Kansisrob (3).

MATRUH: Siwa Oasis (14).

# Echis coloratus Gunther

Echis colorata Gunther, 1878, Proc. Zool. Scc. London, <u>1878</u>: p. 978—Jebel Sharr, Midian, Arabia; Boulenger, 1896, Cat. Sn. 3rit. Mus., <u>3</u>: p. 507; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 835.

Common name--Burton's Carpet-Viper.

Range -- Arabia, Frypt, and Sokotra.

Specimens coll. A = -8. Map 34.

SINAI: Feiran Oasis ( $\pm$  1500 ft. alt.) (2); St. Catherine's Monastery area ( $\pm$  5000 ft. alt.); Wadi el Sheikh (1), Raba (1).

Wadi Gindali (1).

RED SEA: Sukkari mine (1); Wadi Fatiri area, Atu Kharif mine (1). CAIRO: Helwan, Wadi Hof (1).

Vipera persica fieldi (Schmidt) Figure 11.

17: p. 227—Bair Wells, Jordan; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 830. Pseudocerastes fieldi Schmidt, 1930, Field Mus. Nat. Hist., Zcol. Ser.

Vipera persica fieldi, Marx and Rabb, 1965, Fieldiana, Zcol., 14: p. 174.

Common name -- Field's Horned-viper.

Material examined--1 (Giza Museum 7152; collected by S. S. Flower, 15 October, 1918). Mar 32.



FIGURE 11. Vipera persica persica from Iran - Paris Museum 57-66. After Marx and Rabb, 1965: fig. 35 B

Range--Sinai and extreme southwestern Asia.

Flower (1930) records a specimen from "White Ridges", 9 miles south of Hassana and about 29 miles north of Nakhl, central Sinai. I wish to thank Mr. Ezzat Guindy of NAMRU-3 for his kindness in searching for and sending me this specimen. This snake is in a very dry condition, but fortunately all of the diagnostic features of this species can be seen (Marx and Rabb, 1965).

#### Order CROCODYLIA

#### CROCODYLIDAE

# Crocodylus niloticus Laurenti

Crocodylus niloticus Laurenti (part), 1768, Synops. Rept., p. 53—India and Egypt; Boulenger, 1889, Cat. Chil. Rhyn. Croc. Brit. Mus., p. 283; Anderson, 1898, Zool. Egypt, 1: p. 10, pl. 1; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 755; Wermuth, 1961, Schildk. Krok. Bruck.; p. 364.

Common name -- Nile Crocodile.

Range--southwest Asia, Airica, Madagascar, Comoros and Seychelles.

## Order TESTUDINATA

# Key to the Species of Turtles

1.	Dorsal shell with shields or plates	
2.	Snout pointed, snorkel-like	5) 5)
3.	Dorsal plates overlapping (imbricate) Eretomochelys imbricata (p. 45 Dorsal plates not overlapping	

#### TESTUDINIDAE

#### Testudo kleinmanni Lortet

- Testudo kleinmanni Lortet, 1883, Arch. Mus. Hist. Nat. Lyon, 3: p. 188— Lower Egypt and environs of Alexandria, Egypt; Loveridge and Williams, 1957, Bull. Mus. Comp. Zool., 115: p. 276.
- Testudo leithii (non Carter, 1852), Boulenger, 1889, Cat. Chel. Rhynch Croc. Brit. Mus., p. 175; Anderson, 1898, Zool. Egypt, 1: p. 28, pl. 2; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 745.

Common name--Egyptian Tortoise; Leith's Tortoise.

Range -- Western Cyrenaica to Sinai.

Specimens collected--13. Map 35.
SUEZ: Bir Gindali, (1).

MATRUH: El Daba (1); Sidi Barrani, 1.6 km S of (2); Salum (9).

#### CHELONIIDAE

# Caretta caretta (Linnaeus)

- Testudo caretta Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 197—Islands off America.
- Thalassochelys caretta, Boulenger (part), 1889, Cat. Chel. Rhyn. Croc. Brit. Mus., p. 491.
- <u>Caretta caretta</u>, Siebenrock, 1909, Synop. Schildk.,  $\underline{\underline{10}}$ : p. 549; Flower, 1933, Proc. Zool. Soc. London,  $\underline{\underline{1933}}$ : p. 751; Loveridge and Williams, 1957, Bull. Mus. Comp. Zool,  $\underline{\underline{115}}$ : p. 751.

Common name -- Red-brown Loggerhead; Loggerhead Turtle.

Range--African coasts, Indian, Mediterranean, Atlantic Oceans.

Specimens collected--1. Map 35. KAFR EL SHEIKH: Baltim (1).

# Chelonia mydas (Linnaeus)

- Testudo mydas Linnaeus, 1758, Syst. Nat., ed. 10, 1: p. 197—Ascension Island.
- Chelonia mydas, Sowerby and Lear, 1872, Tort. Terrap. Turtles, pls. 59-60; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 750: Loveridge and Williams, 1957, Bull. Mus. Comp. Zool., 115: p. 474.
- Chelone mydas, Boulenger, 1889, Cat. Chel. Rhyn. Croc. Brit. Mus., p. 180.

Common name -- Green Tirtle; Edible Turtle.

Range--All African coasts, Indian and Atlantic Oceans.

Specimens examined--egg and hatchlings. Map 35. RED SEA: Giftun el Kebir Island.

#### Eretmochelys imbricata (Linnaeus)

- Testudo imbricata Linnaeus, 1766, Syst. Nat., ed. 12, 1: p. 350—American and Asiatic Seas.
- Chelone imbricata, Boulenger, 1889, Cat. Chel. Rhyn. Croc. Brit. Mus., p. 183.
- Eretmochelys imbricata, Flower, 1929, List., Vert. Anim. Garden Zool. Scc. London, 1828-1929, 3: p. 39; 1933, Proc. Zool. Soc. London, 1933: p. 750; Loveridge and Williams, 1957, Bull. Mus. Comp. Zool., 115: p. 485.

Common name -- Hawksbill Turtle.

Range--east, south, and west coasts of Africa, Indian, and Atlantic Oceans.

Specimens collected--2. Map 35. RED SEA: Hurghada (2).

#### DERMOCHELYIDAE

## Dermochelys coriacea (Linnaeus)

- Testudo coriacea Linnaeus, 1766, Syst. Nat., ed. 12, 1: p. 350—Mediterranean Sea.
- $\frac{\text{Dermochelys}}{\text{p. 10;}} \frac{\text{coriacea}}{\text{Flower, 1933, Proc. Zool. Soc. London, } \underbrace{1933}_{\text{coriacea}}; \text{ p. 752; Loveridge and Williams, 1957, Bull. Mus. Comp. Zool., } \underbrace{115}_{\text{corp. 2001.}}; \text{ p. 499.}$

Common name -- Leatherback; Leathery Turtle.

Range--African coasts, Indian, Mediterranean, and Atlantic Oceans.

The only record of this species from Egypt is a specimen from the Alexandria market (Flower, 1933: p. 752).

#### TRIONYCHIDAE

#### Trionyx triunguis (Forskál)

Testudo triunguis Forskal, 1775, Descr. Anim., p. 9-Nile River.

Trionyx triunguis, Peters, 1875, Monatsb. Akad. Wiss. Berlin, p. 196;
Boulenger, 1889, Cat. Chel. Rhyn. Croc. Brit. Mus.. p. 254; Anderson, 1898, Zool. Egypt, i: p. 32, pl. 3; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 753; Loveridge and Williams, 1957, Bull. Mus. Comp. Zool., 115: p. 423.

Common name -- Nile Soft-shelled Turtle; Soft-shelled River-Turtle.

Range--Egypt south to Lake Rudolf, southwest to Angola and northwest to Senegal.

# AMPHIBIA

# Order SALIENTIA

Key to the species of frogs and toads.

1.	Back warty, toads ( <u>Fafo</u> )       3         Back rot warty, frogs ( <u>Rana</u> )       2
2.	Outer metatarsal tubercle present; in life: 8 to 10 longitudinal ridges of skin On back Page To Taggaranting (p. 47)
	on back
3.	Back with interrupted dark longitudinal bands <u>Bufo vittatus</u> (p. 47) Back with dark spots
4.	Dark spots on back smaller than tympanum <u>Bufo dodsoni</u> (p. 46) Dark spots on back larger than tympanum
5.	A long, continuous gland behind angle of mouth and beginning below tympanum <u>Bufo r. regularis</u> (p. 46) Small round warts behind angle of mouth <u>Bufo v. viridis</u> (p. 47)
	BUFONIDAE
Buf	o dodsoni Boulenger
	Bufo dodsoni Boulenger, 1895, Proc. Zool. Soc. London, 1895; p. 540, pl. 30. fig. 5-Rassa Alla, Ethiopia.
	Common nameDodson's Toad.
	Rangesoutheastern Egypt to Somalilands.
	Specimens collected5. Map 36. SOUTHEASTERN DESERT: Gebel Elba (5).
Buf	o regularis regularis Reuss
	Buto regularis Reuss, 1834, Mus. Senckenberg., 1: p. 80—Egypt; Anderson, 1898, Zool. Egypt, 1: p. 353, pl. 50, fig. 3: Flower, 1933, Proc. Zool. London, 1933: p. 841.
	Bufo regularis regularis, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 80.
	Common nameEgyptian Square-marked Toad; Reuss's Toad.
	RangeAll of Africa except the northwest.
	Specimens collected209, Map 36, SUEZ: Cairo, 24 km E of (2)  DAMIETTA: Fariskur (3); Kafr el Battikh (7), SHARQIYA: Tel Basta (2); Abu Suweir (4), QALUBIYA: Kafr Farouk (3); Kafr Abu Sir (1), KAFR EL SHEIKH: Baltim (2); El Burg (41), GHARBIYA: Shirbin (3), BEHEIRA: Kafr Dawud (10), CAIRO: Abbassia (7); Maadi (3), GIZA: Mit Riheina (4); near Giza Pyramid (2); El arrariya (9); Zawyet Abu Musallam (10); Abu Rawash (12); Kom Bira (1); El Mansuriya (31); Birqash (7); El Qatta (2); Minshat el Bakkari (4), MINYA: El Qeis (16), QENA: Luxor (1), MATRUH: Burg el Arab, 16 km W of (1); Salum (1); Bir El Shaqqa (1),
	· · · · · · · · · · · · · · · · · · ·

## Bufo viridis viridis Laurenti

Bufo viridis Laurenti, 1768, Synops. Rept., 27: pl. 1, fig. 1-Vienna.

Bufo viridis viridis, Mertens, 1926, Senckenb., 8: p. 258.

Common name--Green Toad.

Range--Europe, North Africa westward to Mongolia and Tibet.

Specimens collected--175, Map 36.

ISMAILIA: El Qantara (1).

SUEZ: Wadi Iseili tributary, 24 km E of Kutamiya Observatory (7).

SHARQIYA: Kafr Esbet Dawud (1).

GHARBIYA: Shirbin (1).

CAIRO: city (1); Maadi (1). FAIYUM: El Masara (9).

QENA: Wadi Nassim (1).

MATRUH: Wadi Natroun (18); El Amiriya (6); Ikingi Mariut (2); Bahig (1); Burg el Arab (31); Burg el Arab, 8 km W of (15); El Maghra Oasis (1). Mersa Matruh (38), 4 km NE of (3), 1.6 km E of (3), 1 km W of (3), 56 km W of (1). Salum, 4.8 km E of (2); Siwa Oasis (28).

## Bufo vittatus Boulenger

Bufo vittatus Boulenger, 1906, Proc. Zool. Soc. London, 1906: p. 573, fig. 98-Entebbe, Uganda; Flower, 1933, Proc. Zool. Soc. London, 1933: p. 842.

Common name--Degen's Toad.

Range--Western Tanganyika, Uganda and Lower Egypt.

#### RANIDAE

Rana mascareniensis mascareniensis Duméril and Bibron

Rana mascareniensis Duméril and Bibron, 1841, Erp. Gén., 8: p. 350—
Madagascar, Mauritius, Seychelles: Anderson, 1898, Zool. Egypt, 1:
p. 346, pl. 50, fig. 1: Flower, 1933, Proc. Zool. Soc. London, 1933: p. 845.

Rana mascareniensis mascareniensis, Loveridge, 1936, Field Mus. Nat. Hist., Zool. Ser., 22: p. 92.

Common name--Mascarene Frog; Common Mascarene Frog.

Range--Africa.

Specimens collected--64. Map 37. DAMIETTA: Fariskur (11).

GIZA: Saft el Laban (1); Ausim (19); Tanash (26); El Mansuriya (7).

Rana ridibunda Pallas

Rana ridibunda Pallas, 1771, Reise versch. Prov. russ. Reich., 1: p. 458—Gurjew, north shore of the Caspian Sea (restricted by Mertens and

Rana esculenta Linnaeus, Flower, 1933, Proc. Zool. Soc. London, 1933; p. 844.

Common name--Lake frog.

Range--North Africa, central and southern Europe into West Asia.

Specimens collected--24, Map 37,
CAIRO: Abbassia (2),
GIZA: Kafr Hakim (19); Ausim (3),
Flower (1933) rejected the Egyptian locality of this species,
I am not aware of any subsequent reference to this species in

Egypt.

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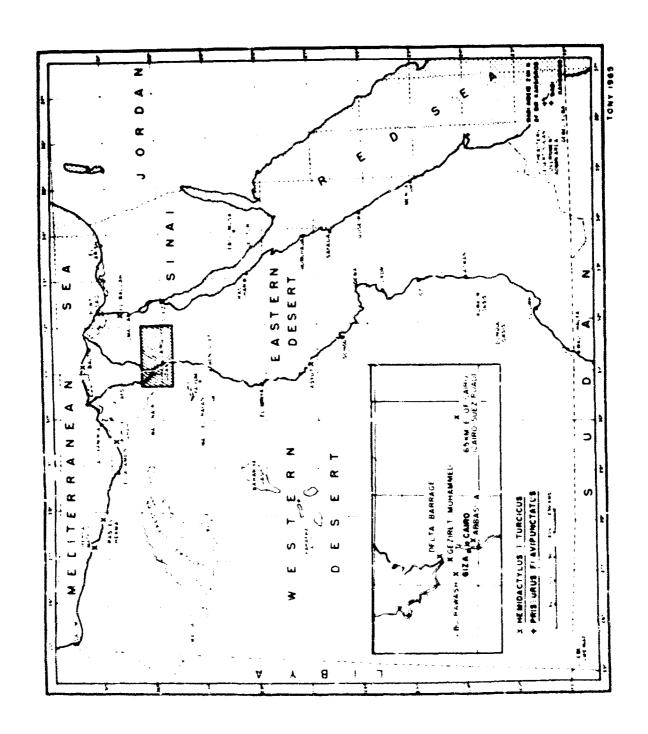
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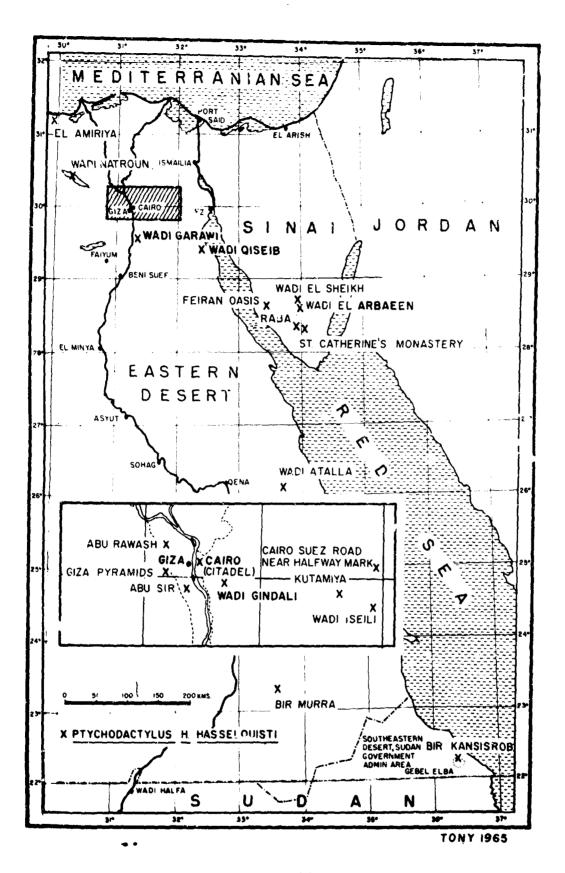
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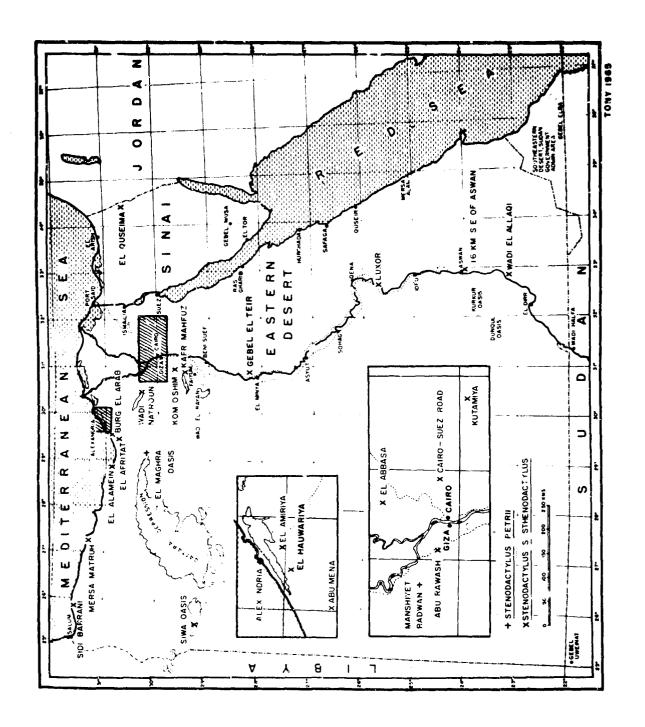
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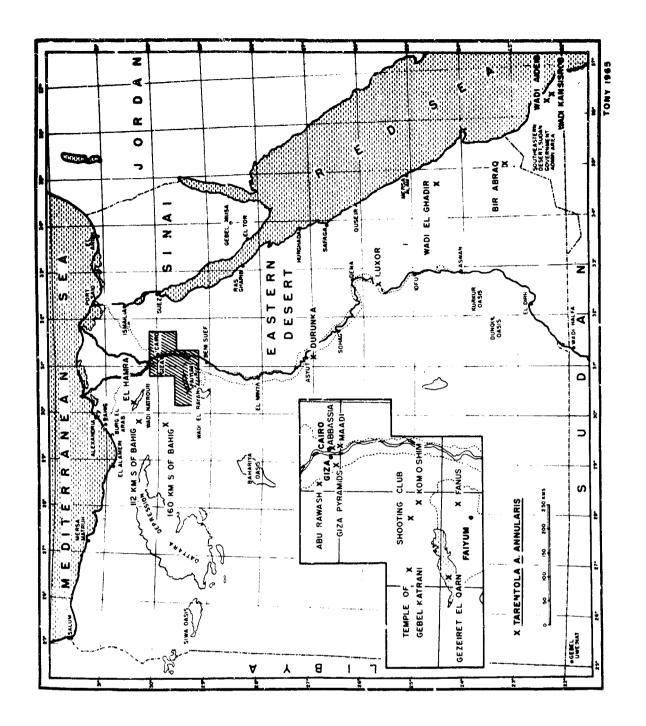
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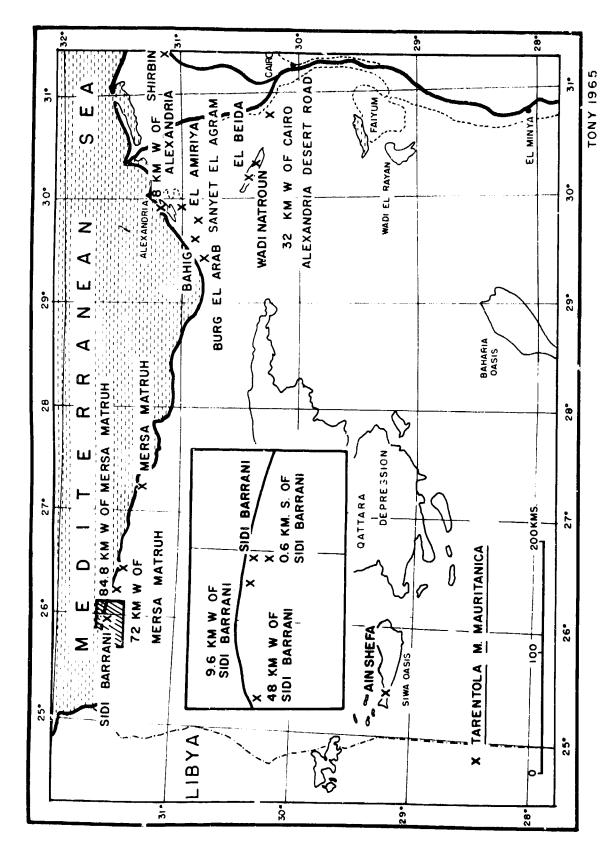
MAP 2



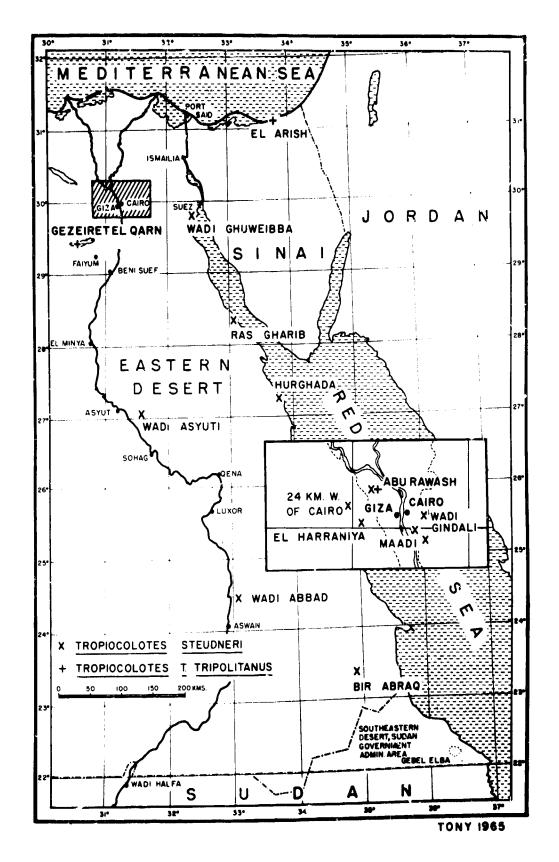
MAP 3



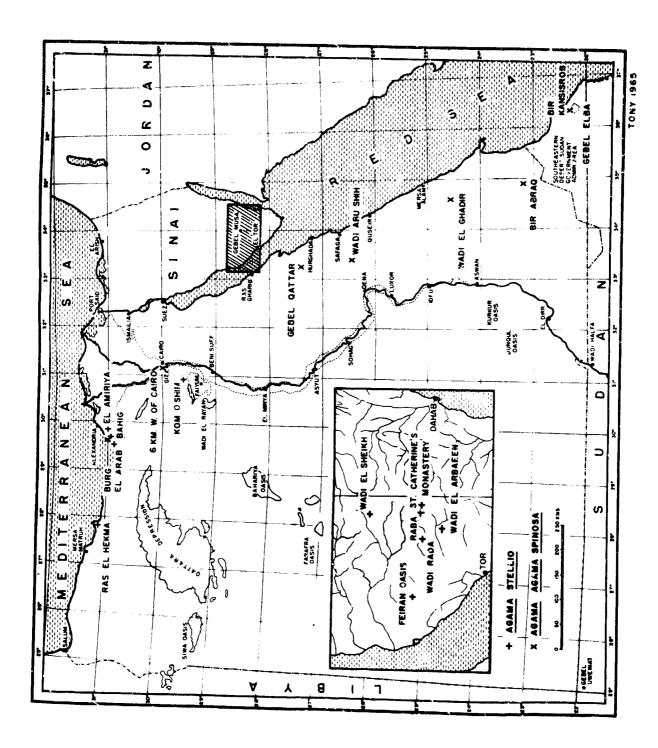
MAP 4



MAP 5

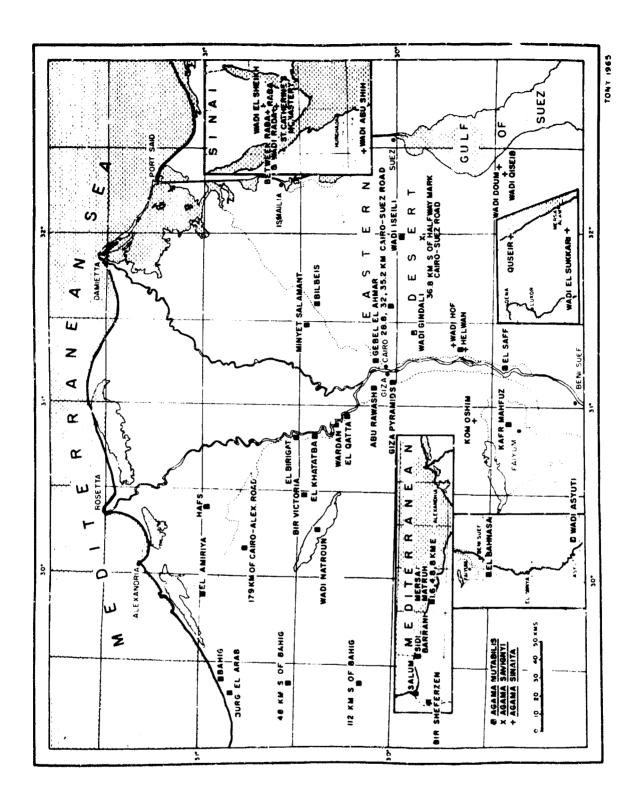


MAP 6

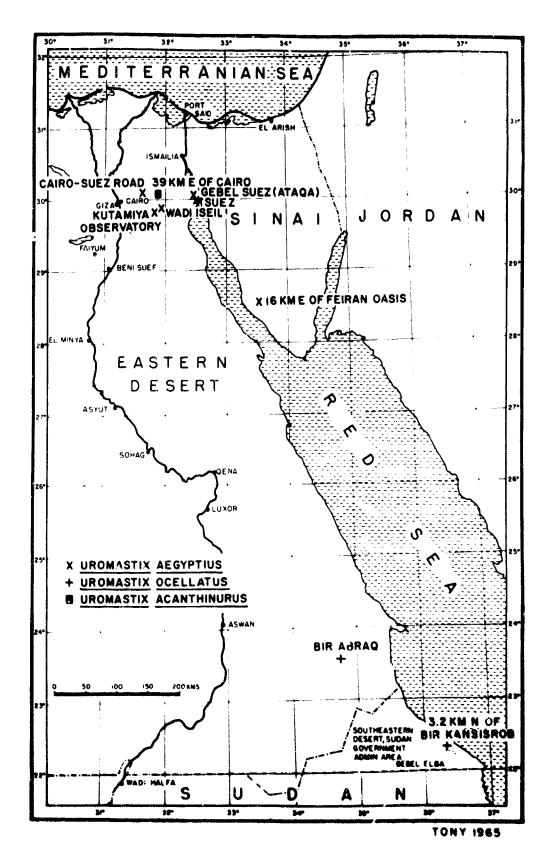


MAP 7

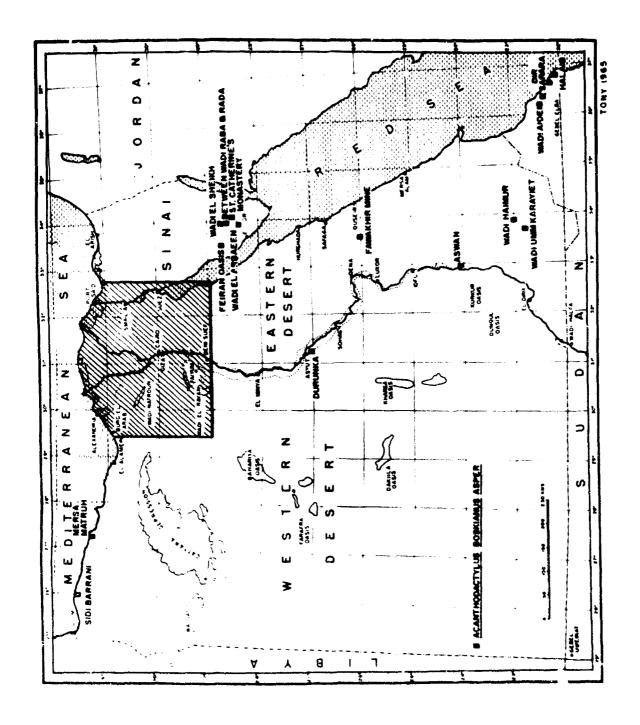
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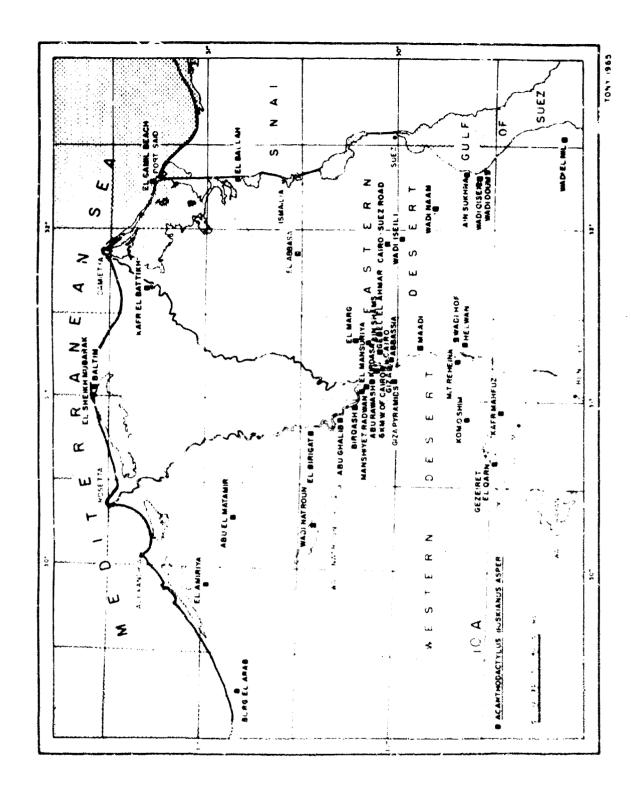
MAP 8

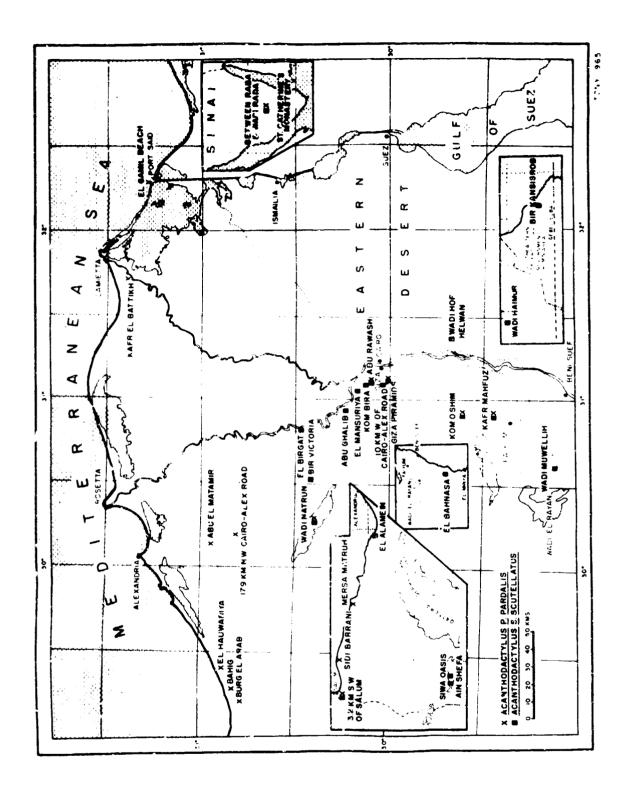


MAP 9

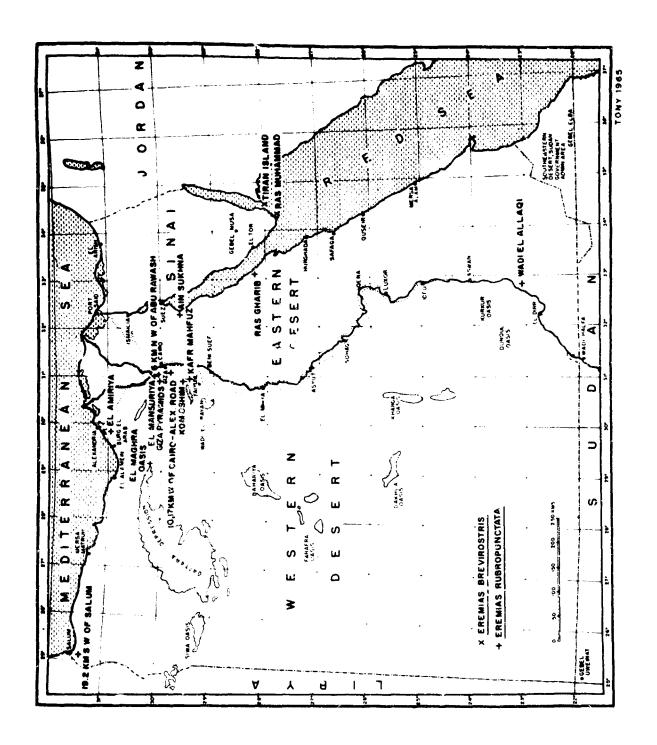


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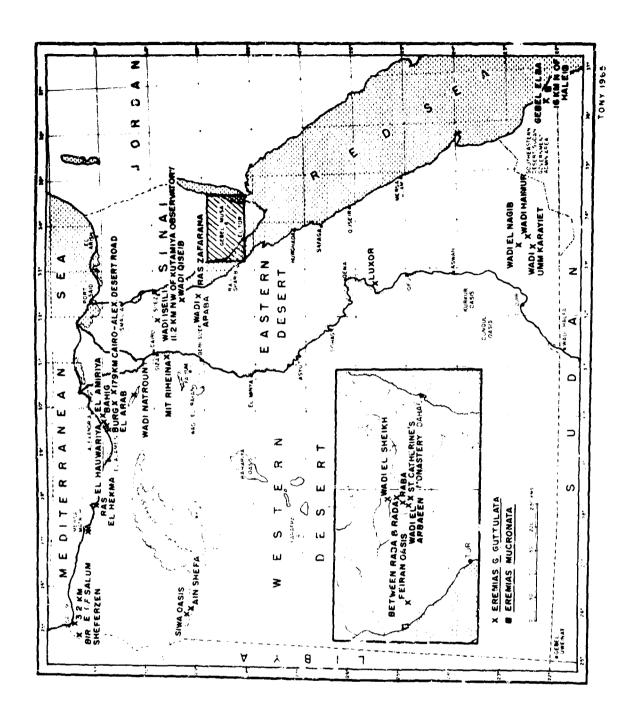




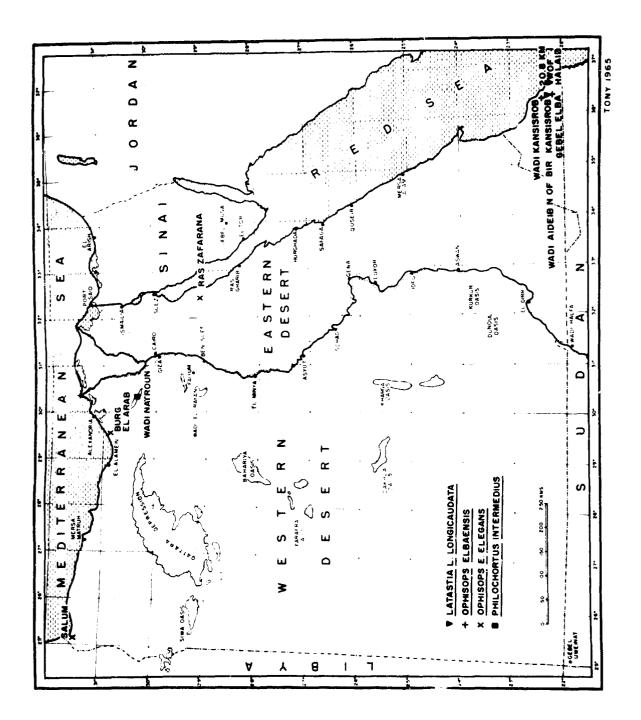
MAP 11



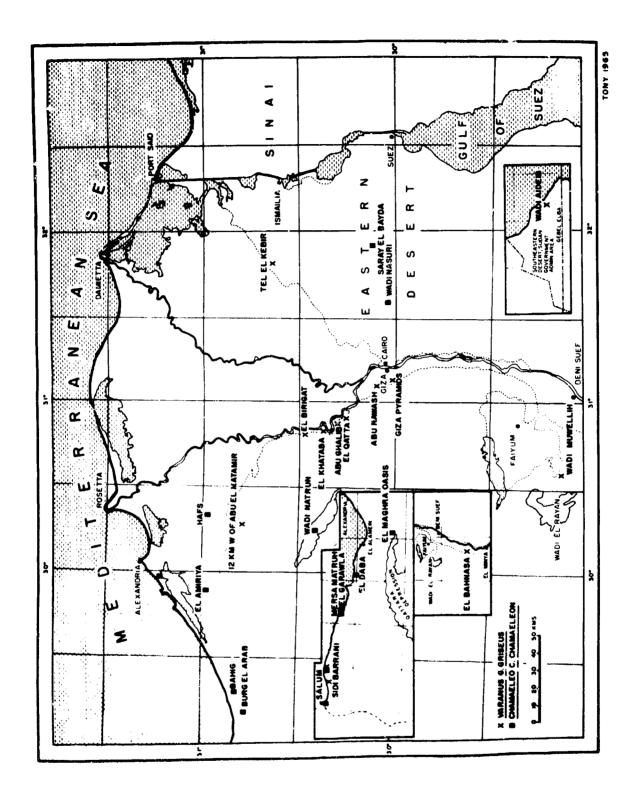
MAP 12



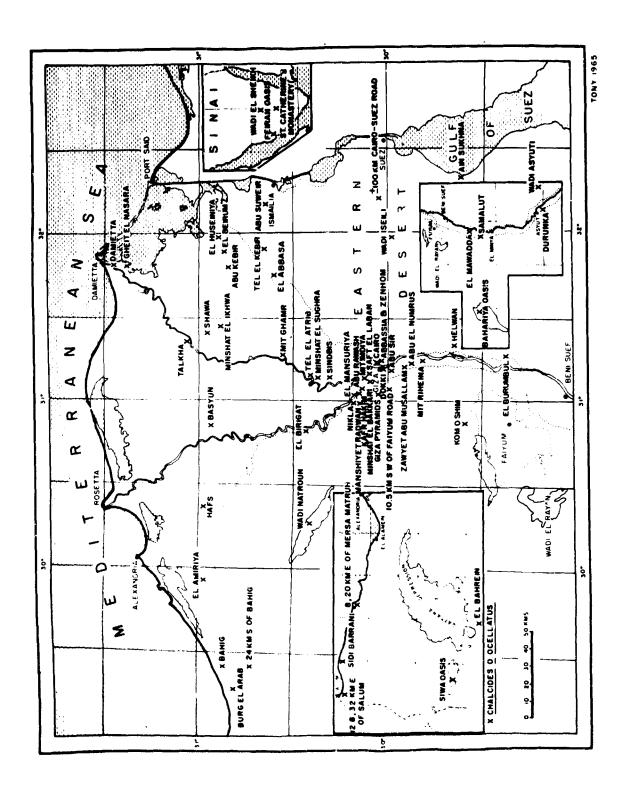
VAP/13



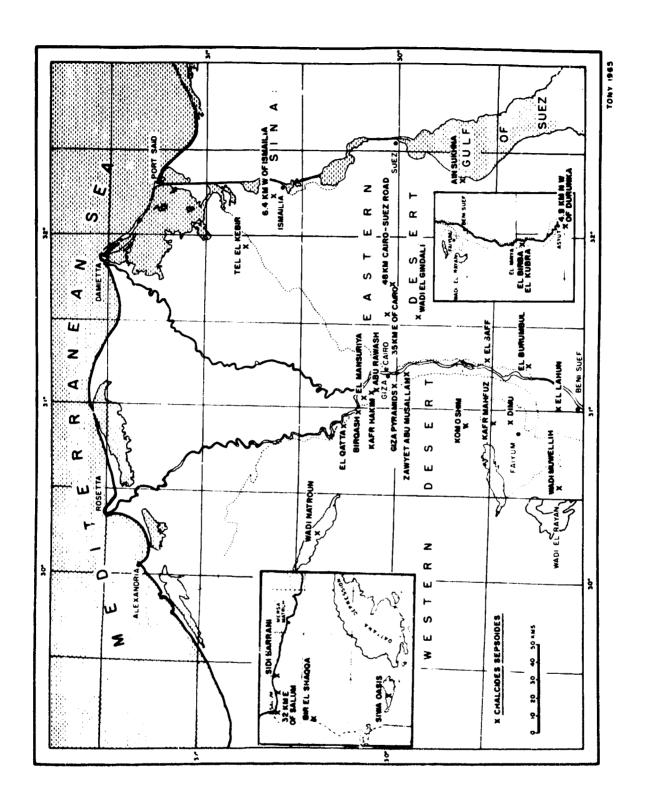
MAP 14



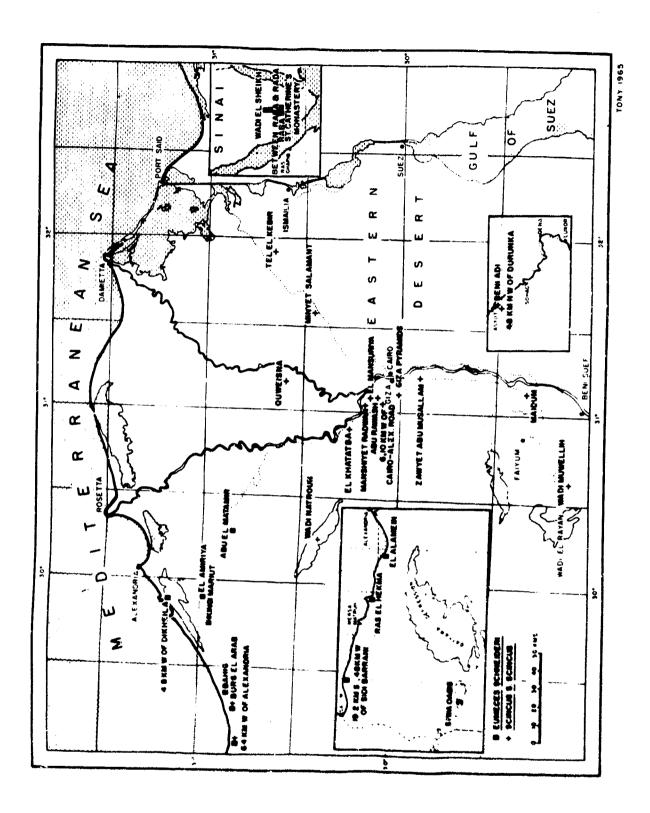
MAP 15



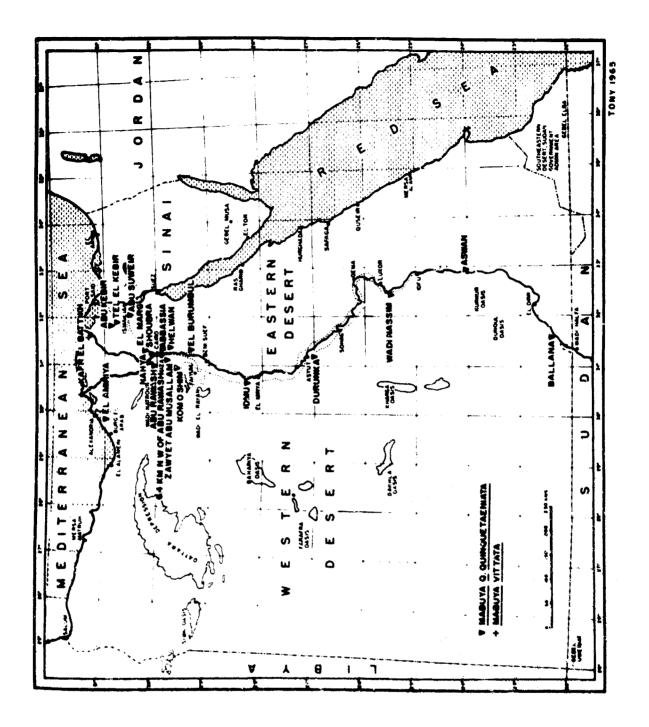
MAP 16



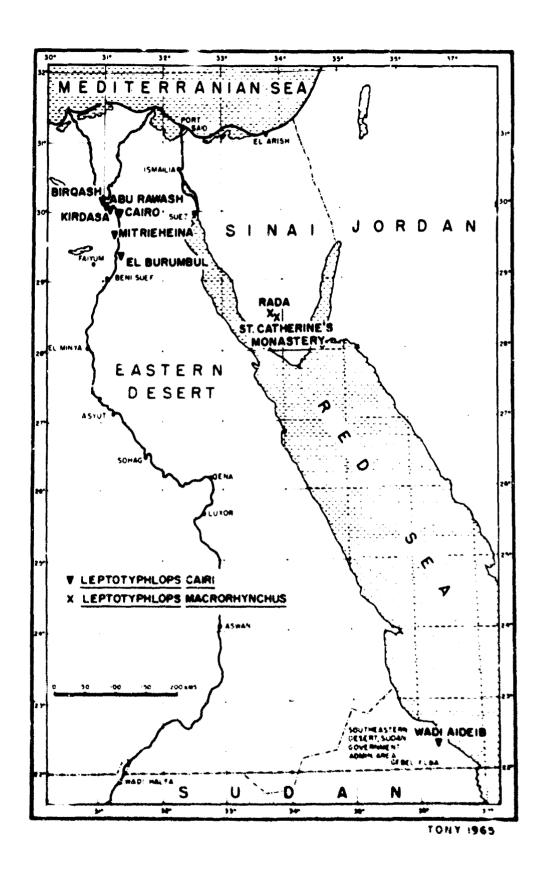
**MAP 17** 



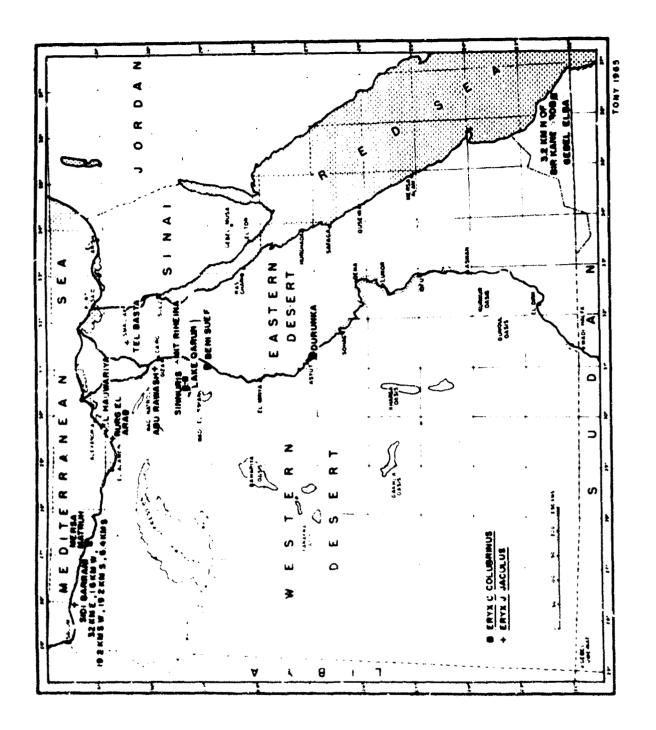
MAP 18



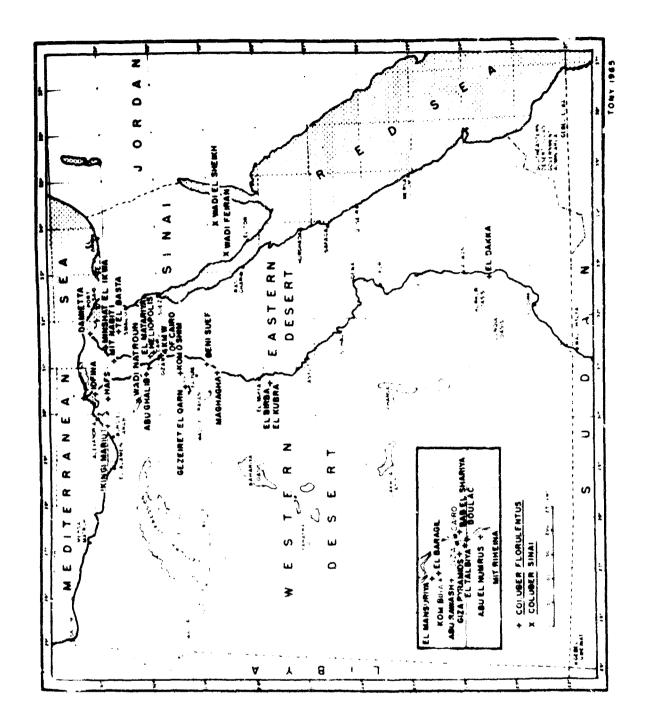
**MAP** 19



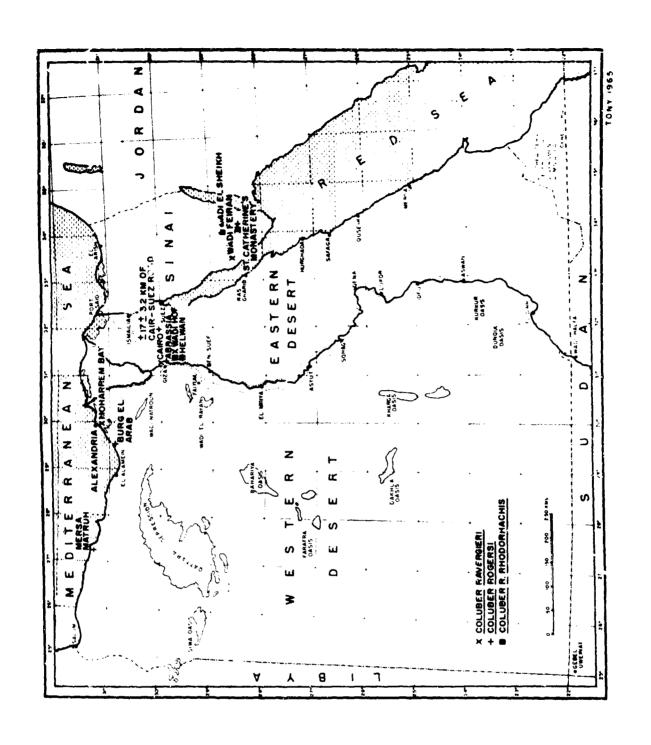
MAP 20



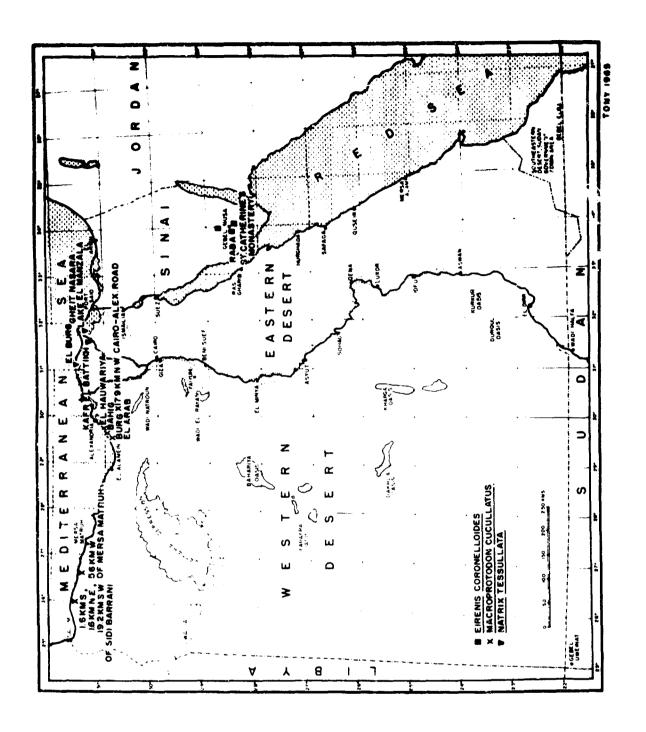
MAP 21



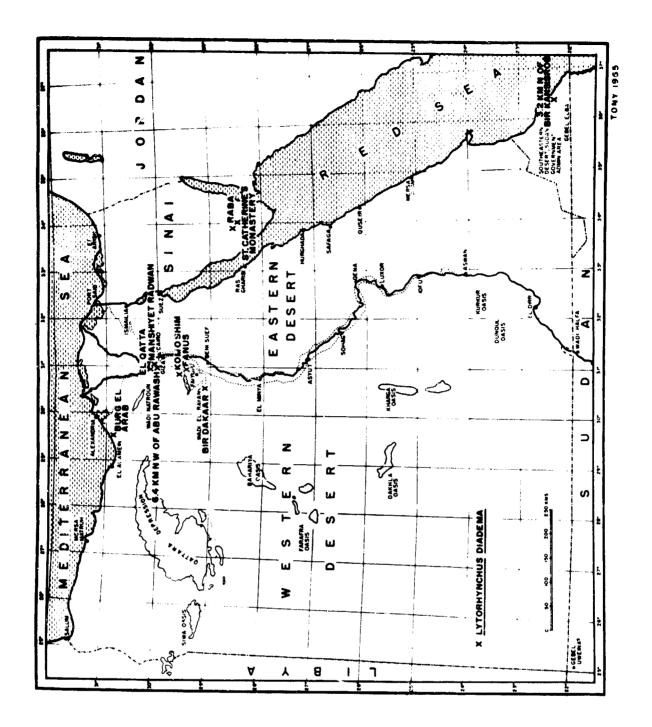
**MAP 22** 



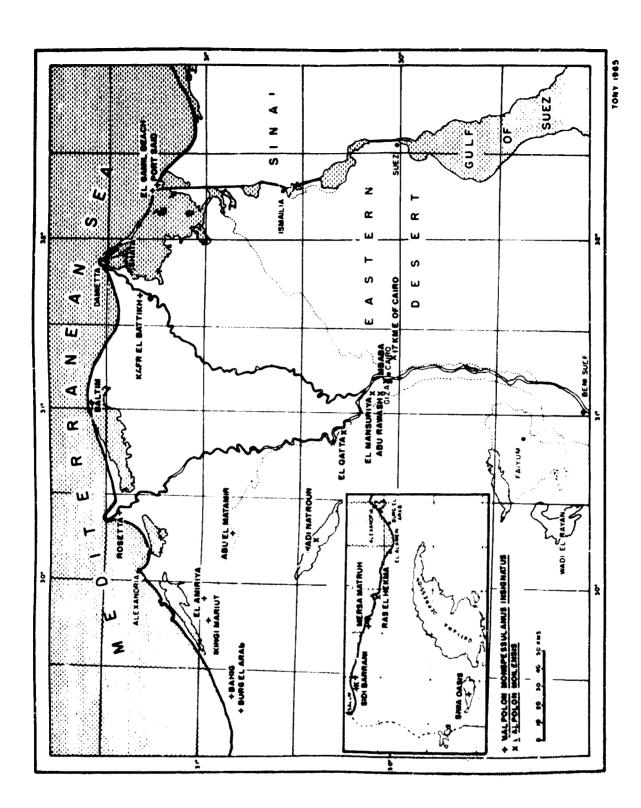
MAP 23



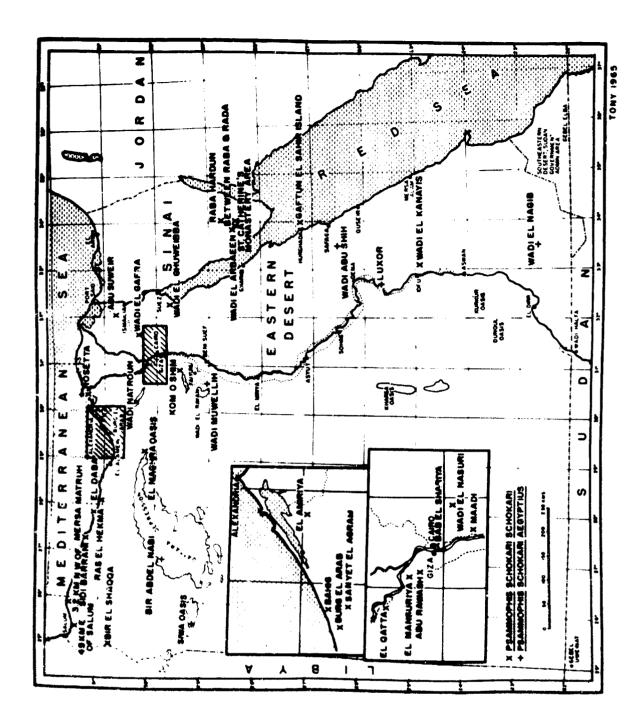
MAP 24



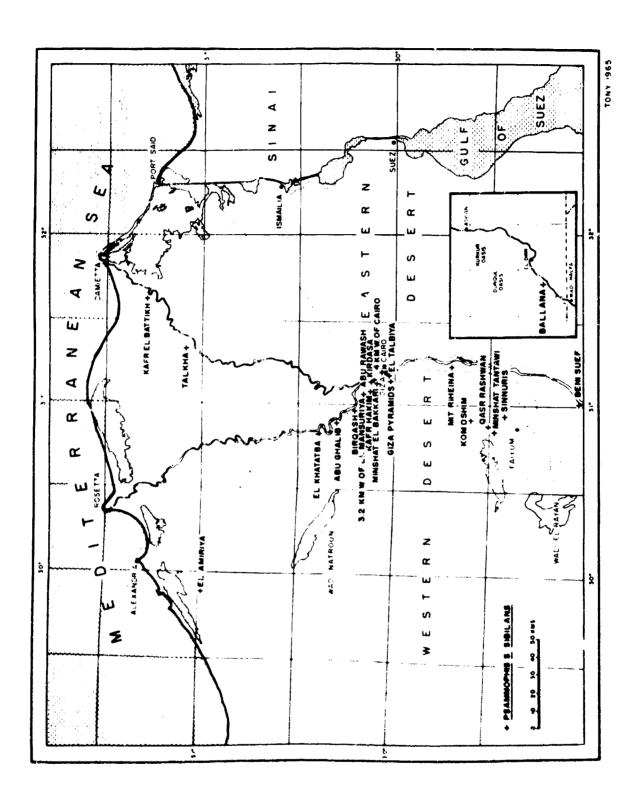
MAP 25



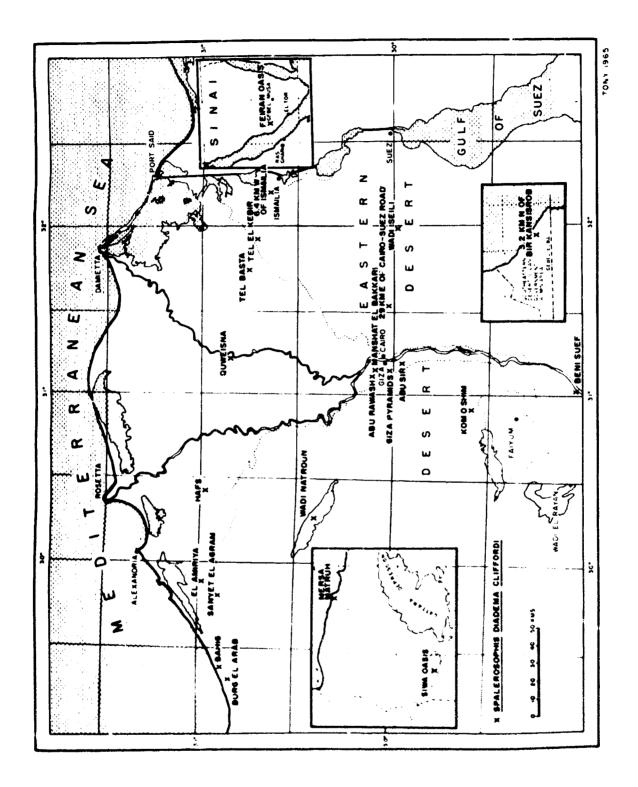
MAP 26



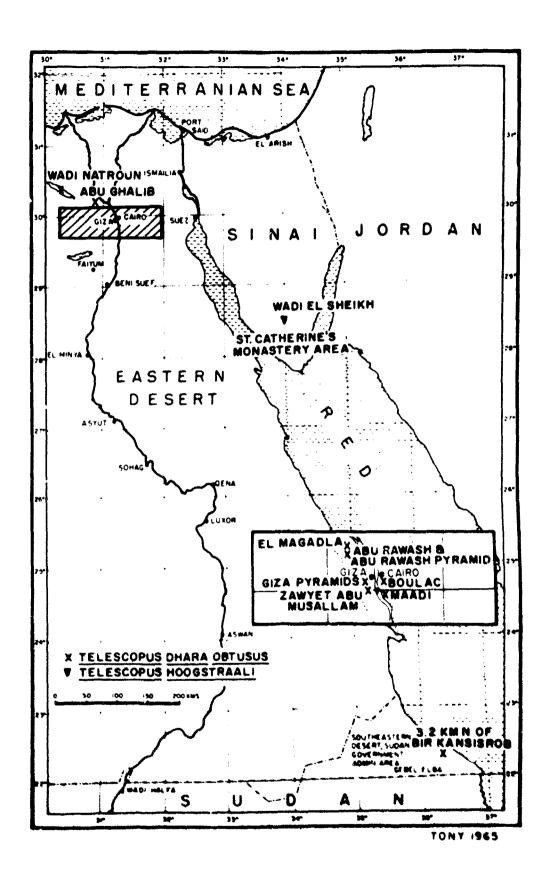
**MAP 27** 



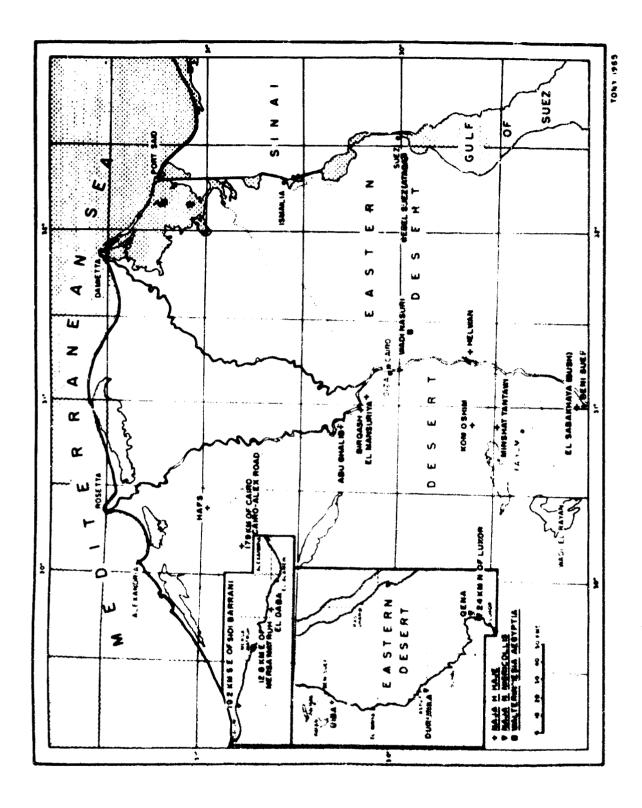
MAP 28



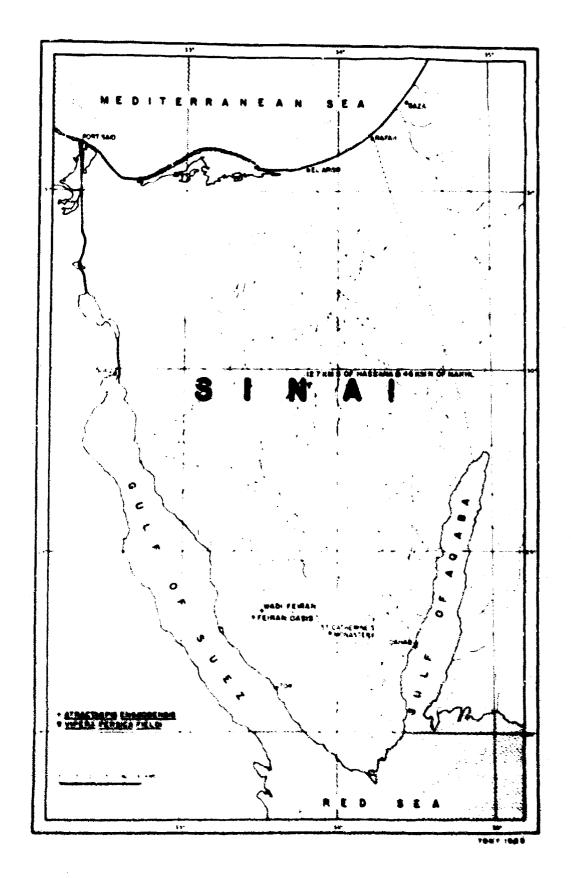
MAP 29



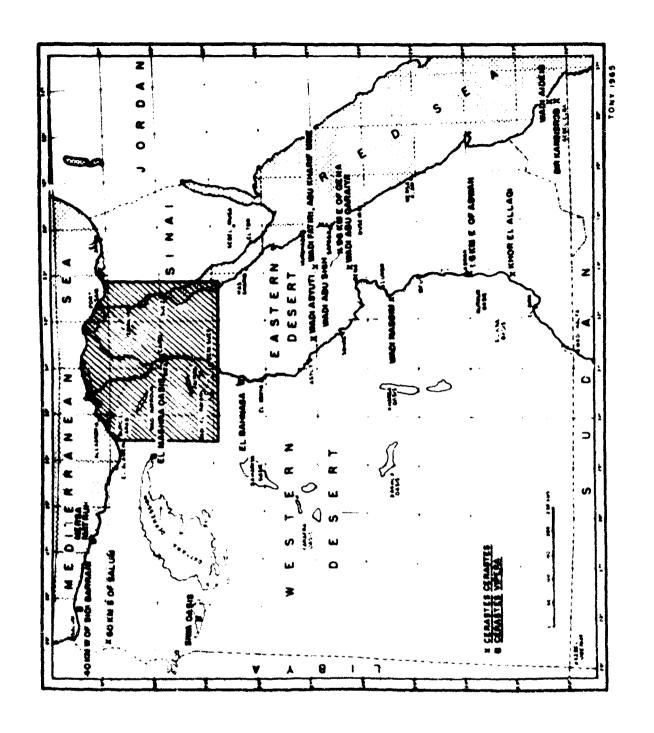
MAF 30



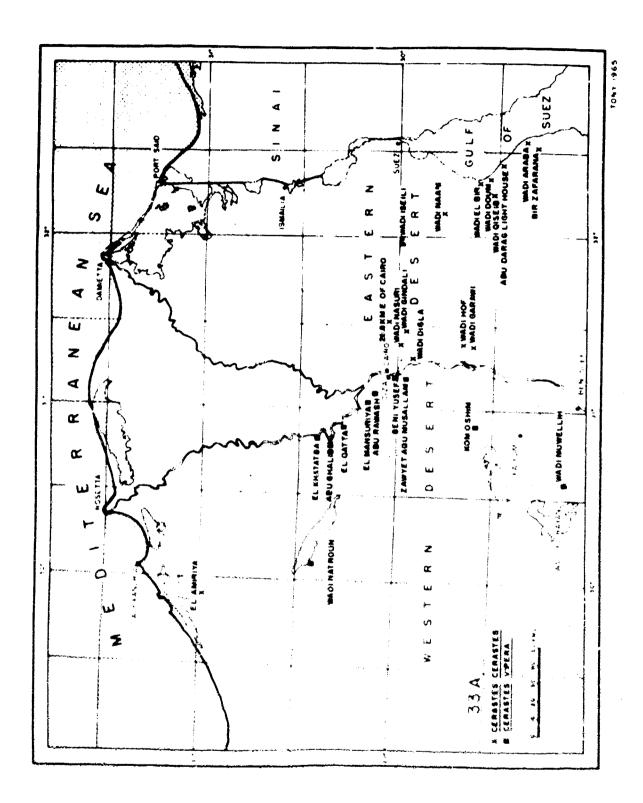
MAP 31



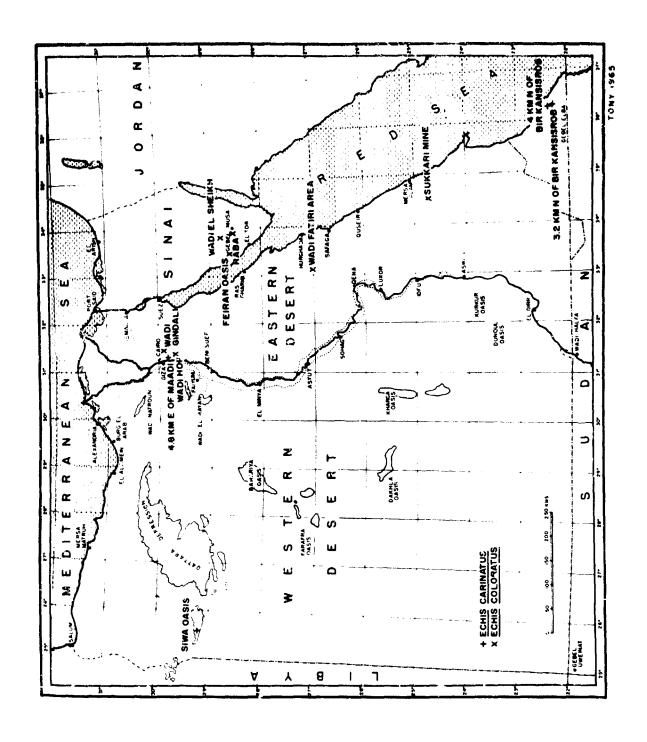
WW 32



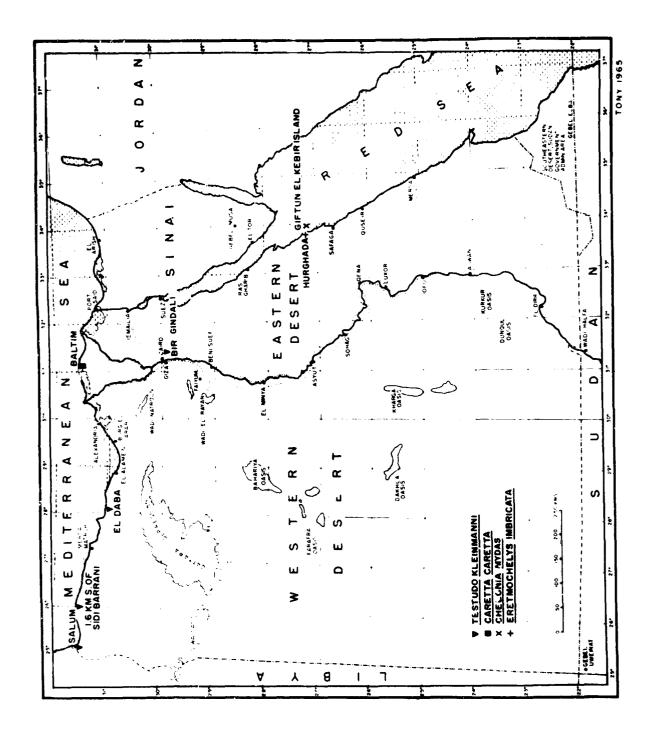
**MAP 33** 



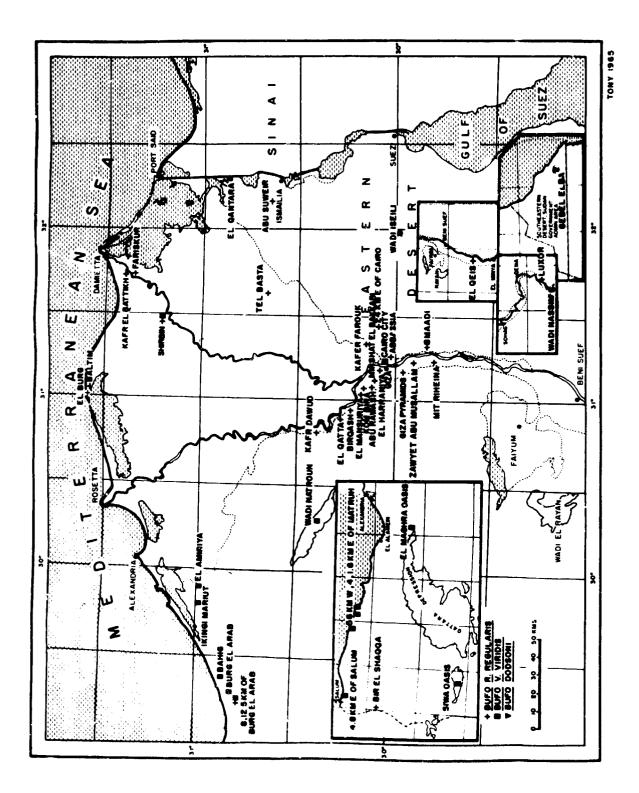
AEE GAN



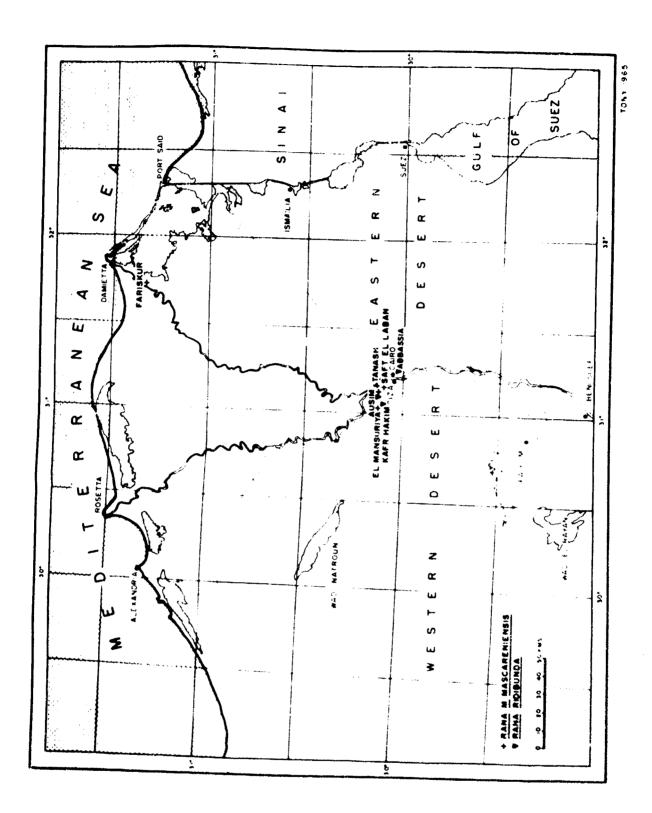
M12 34



MAP 35



MAP 36



MAP 37

localities are given for each species. From the 3.424 specimens obtained, adequate distributional data are now available for most forms in Egypt. Maps showing collecting bealities for each species are also presented for use in future sympatric and ecological studies.

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APECRITY CLASSIFICATION

SUCCESSION CLASSIFICATION

KEY WORDS	1.1NK A	LINK B	LINK C	
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